

Aviruk Chakraborty



- Shri Aviruk Chakraborty has a Bachelor's in Mechanical Engineering and pursued Master's in Computational Engineering from Ruhr University, Dusseldorf in Germany.
- Mr. Chakraborty has developed over 40 Indigenous AI Technology Solutions which are unique not only in India but also worldwide. He has over 19 years of experience in the field of Artificial Intelligence and is acknowledged as a global thought leader in this space and provides advisory to multiple governments across the globe.
- Mr. Chakraborty is also the author of over 20 Patents and numerous innovations in wide range of subjects and has around 14 Research & Policy Publications published (currently under patent application). He collaborates in the field of AI with leading organizations like NASA and D-Wave.

Acheron Group established by Mr. Chakraborty is an innovation firm with a focus on Artificial Intelligence and Quantum Computing with offices in New York, San Francisco, Riyadh, Abu Dhabi, Dubai and Bangalore creates solutions for the following industries.

1. **HealthCare:** We have developed multiple AI-based platforms for healthcare in the field of Radiology, Pathology and Genomics. Our autonomous kiosks and software platforms are being deployed in multiple countries in 2020-21.
2. **Energy:** We provide energy and crude oil solutions to energy producers using remote sensing and IOT-AI algorithms.
3. **AI Bank:** AI Agri Bank and AI International Trade Bank is being established in India, USA and UAE as the World's First completely autonomous AI driven bank without any human intervention.
4. **Defense:** We provide Artificial Intelligence-based defense solutions to the military and intelligence ecosystem in India and also provide various solutions to multiple organizations in the field of maritime technology and surveillance systems in the GCC region.
5. **Agriculture:** We provide agriculture loans, agri-insurance and farm monetary systems using Artificial Intelligence on multi-satellite data. In this field, we collaborate with multiple space agencies like NASA, European Space Agency
6. **Quantum** communication – Cryptography and computation along with AI-based **Satellite** development
7. **NBFC:** An AI-based online platform for short term loans in India, UAE and USA.
8. **Custom software development:** We provide custom software
9. **Real Estate Exchange (REX):** REX is being established as the World's First digital commodity exchange where land as a commodity is digitized and sold on the international exchange.

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- The current professorship for Artificial Intelligence and Quantum Computing in Massachusetts Institute of Technology (MIT) is called the “Chakraborty Professorship for Artificial Intelligence”. This is the first time a chair/professorship in MIT is named after an Indian.
- Mr. Chakraborty is establishing a QAI Research Center & Lab in collaboration with DWave and QAI Lab at NASA AMES in Mountain View.
- Acted as a Royal Advisor to His Highness of Oman from the Al Said Family on various mega projects for implementation in Oman to weane Oman off Hydrocarbon Dependency.

- Mr. Chakraborty is an advisor to the Executive Office of His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai.
- Mr. Chakraborty also advises the National Security Council of India on various matters of strategic national interest.
- Advised “Economic Development Board” of Andhra Pradesh in all matters of investments including Foreign Direct Investment for the UAE Region along with advising the Govt in the field of Artificial Intelligence and Geo-Political Synergies .
- He also presided over various panels during World Economic Forum 2018 in Davos on topics of R&D Policy and FDI and has been a speaker in multiple Forums like Global Business Summit on the topics like AI and Technology.
- Mr. Chakraborty is also an advisor to the UAE’s Ministry for Artificial Intelligence, MOHAP and to various organizations of the Government of India.
- In his capacity as an advisor to both the nations, he helped create the World’s first AI bridge between two nations (India & UAE) which was culminated in a signing ceremony on 27th July 2018.
- Received Ministry of Health, Dubai, UAE’s Healthcare Innovator Award.
- Partnered with Harvard Medical School for validating our AI-based Tuberculosis detection algorithm which was developed as a project between Archeron Group, the Artificial Intelligence Ministry UAE and UAE Prime Ministers Office. Dr. Salmaan A. Keshavjee, MD, PhD, ScM, the director of Harvard Medical School’s Center for Global Health Delivery validated the algorithm on-behalf of the UAE Ministry of Artificial Intelligence.

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- World's First Artificial Intelligence powered satellite constellation is to be launched by Archeron Group in Q1-Q2 2021 where we will have capabilities for optical, synthetic aperture radar, hyperspectral and space-based radio frequency sensors along with the data being stored in distributed blockchains in space.
- Launching the World's first fully autonomous AI Enabled Satellite using ISRO's PSLV in 2021
- Created and implemented the World's first AI based Public Health trial under the aegis of UAE PMO for the identification of TB using AI on Chest X-Ray Images.

- Archeron Group's was instrumental in establishing Indian Army's AI Lab in its signals regiment.
- Mr. Chakraborty is the member of the Global AI Governing Council under the World Government Summit umbrella.
- Has advised Govt of India's EDB for introducing Hyperloop Technology in India.
- Have been a speaker at the prestigious Future Investment Initiative hosted in Riyadh by Saudi Arabia's Sovereign Wealth Fund (PIF) on the topic of Artificial Intelligence and Healthcare and Banking.
- Chosen as a speaker and advisor to the G20 Summit being hosted in Riyadh in 2020 on the subject of Artificial Intelligence and automation of banking processes.
- Mr. Chakraborty is also The President of Economic Development Board of India's premier quasi-governmental trade promotion organization called "Indian International Trade Development Organization" with a mandate to strengthen bi-lateral trade and foreign direct investments between India and various governments across the world.
- Advised multiple governments across the globe on creating their National AI Strategy Roadmap and implementation KPI's.
- Mr. Chakraborty has also advised Telecom Regulatory Authority of India for green telecom policy implementation.
- Advised the Government of India Ministry of Health on how to forged partnerships with UAE and Saudi Arabian Government for the WHO initiative of "Global Digital Health Partnership".

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- He has served as one of the youngest faculty members at the age of 23 in Ruhr University, Dusseldorf, Germany teaching two very diverse subjects of Economics and Engineering in English.
- At the age of 24, he became one of the youngest financial advisors in Germany and helped a German firm expand internationally. Before starting his own venture, he was also a Director of Operations Asia Pacific Region in a prestigious German Firm.
- “CapitaWorld” India’s first AI enabled Fintech platform for loans and fund raising was co-founded by Mr. Chakraborty a few years back which subsequently was acquired by a consortium of Indian public sector banks.

- CapitaWorld using our AI was the only nonbanking organization which was awarded a banking innovation award by the Central Bank of India (RBI and IDRBT).
- He also has served as a guest and visiting faculty for various premiere institutions in India such as CEPT, teaching a wide range of subjects such as Climate Change, Energy and Environmental Economics, Carbon Credit Finance & Smart Cities. He also created and taught the first Smart Cities course in India at CEPT which is a step towards creating a knowledge ecosystem needed to fulfill our Honorable Prime Minister’s Vision of 100 smart cities in India.
- Provided advisory on India’s energy security and India’s geopolitical needs in the Gulf Region for stabilizing India’s energy markets to the Honorable Minister of Petroleum Government of India Shri Dharmendra Pradhan.
- Provided advisory and multiple solutions and platforms to the Ministry of Health and Prevention (MOHAP) in UAE for the purposes of creating a National AI-based Radiology and Pathology platform. This platform was unveiled by the Ministry in Arab Health 2020 and this is the World’s First National Radiology and Pathology platform.
- As our CSR, we also created a solution in collaboration with Ministry of Health (MOHAP) for the people of determination by creating an AI platform which uses Machine Learning to translate and interpret sign language.
- Provided advisory and consulting services to oil and natural gas corporation (ONGC) of India for water footprinting of its oil fields (of Godavari basin) and gas fields in Tripura. This was the first water footprinting exercise conducted by an energy company in India.

Collaborations of Archeron Group



Discussed the next generation privacy protocols of internet 2.0 for Healthcare data online with Sir Tim Bernes Lee, The creator of Internet in MIT.



Was part of the Davos panel on R&D in India as Archeron's AI Healthcare R&D centers are in San Francisco and Bangalore.



Developing the next generation of Quantum Machine Learning Algorithms using the Dwave Quantum Computer at NASA AMES in Mountain View.



Our discussion in Davos ranged from SDG's to irradiation of Major global Diseases like TB at a massive global scale under the auspices of UN along with our AI Agri Bank project.



Developing the large-scale nation-wide strategy for AI in UAE and many other nations which will impact AI based Healthcare solutions including TB screening in the next couple of years.



Our Quantum AI algorithms for the Healthcare and Banking are developed in collaboration with NASA Quantum Computing Lab in Mountain View, California.

Collaborations of Archeron Group



Receiving Health Innovator Award at Healthcare roundtable by Ministry of Health and Prevention (MOHAP), UAE.



Archeron was presented as an innovation case study at the prestigious Abu Dhabi Entrepreneurship Summit at Abu Dhabi Global Markets.



Collaborating with MIT (Chancellor Eric Grimson) & Archeron for development of Next Generation AI based Healthcare solutions.



Archeron collaborating with His Excellency Jamal Ali Al Hazeem of Bahrein for developing solutions for Bahrein's innovation eco-system.



Arab Health 2020 where UAE's National Radiology and Pathology Platforms (developed by Archeron) where AI is used for the disease diagnosis were unveiled at the Ministry of Health Pavilion.



Launched the World's First Ai based Public health Trial for TB detection in Dubai. Here We were presenting the solution inside the Min of Health Pavilion in Arab Health 2019.

Collaborations of Archeron Group



With the Minister of State for Healthcare in New Delhi, discussing the possible integration of our AI Algorithms with the Government of India's Telemedicine Platform .



With the Indian Government delegation consisting of AP EDB Head and Sheik Nayan of Abu Dhabi .



At ISRO/Antrix HQ in Bangalore with Team as Archeron Group will be Using ISRO's PSLV Rocket in 2021 to launch a set of AI enabled Intelligent satellites.



One Chess Master with Another - Discussed Indo Pacific Geopolitical Strategy with Henry Kissinger over Lunch at MIT.



Acting as the Advisor to the Economic Development Board of AP in the arena of Artificial Intelligence, Geopolitics and Foreign Direct Investment with a Remit to represent EDB officially in GCC Region.



Participated in a Panel Discussion with Mr. M. Ambani in Davos on Energy Security and crude transportation in the Indian Ocean Region.

Collaborations of Archeron Group



Was member and speaker in Multiple Panels in Davos. Including Panel on Indian education system.



As a pro-bono advisor to multiple departments in Government of India provided advisory to the Honorable Petroleum Minister of India on India's energy security vis-à-vis our foreign policy wrt UAE and KSA



With Archeron board member Charles Johnson (Johnson Family owns Franklin Templeton) at GITEX 2019 where Archeron unveiled its Rafahia platform for human emotion quantification.



With the honorable professor Michio Kaku as a co-speaker in the panel for use of AI for humanity at the World Government Summit at Dubai.



As a panelist and speaker at the prestigious Future Investment Initiative hosted by the Sovereign Wealth Fund of Saudi Arabia (PIF) at Riyadh in October 2019.



With chairman of the board for Massachusetts Institute of Technology (MIT) Robert Millard at the MIT benefactors dinner in 2019 for Chakraborty Professorship for Artificial Intelligence & Quantum Computing.

Collaborations of Archeron Group



At the prestigious MIT Nuclear Fusion Reactor Lab with professor Dennis G. WHYTE.



As an advisor to the Economic Development Board of Andhra Pradesh helped the government in establishing a 2 Billion Dollar medcity project in Andhra Pradesh



Provided advise to His Highness Faris Bin Fatik Bin Fahad Al Said as the Royal Advisor for creating a roadmap for Oman to diversify from oil revenue.



Arab Health 2020 where UAE's National Rafahia Platform for human emotion and stress quantification (developed by Archeron) was unveiled at the Ministry of Health Pavilion.



The majority of Archeron Group's research team is from Indian Institute of Science Bengaluru (IISc), hence continuous interaction with IISc becomes part of our CSR.



With the first batch of Archeron's Machine Learning team members from IISc, IITB and ISIK in our office in Bangalore.

NEWS STORIES

ARCHERON GROUP CONDUCTS THE WORLDS FIRST AI BASED PUBLIC HEALTH TRIAL IN DUBAI FOR TB XRAY IDENTIFICATION USING NEURAL NETWORKS

<https://gulfnews.com/uae/ai-to-be-used-in-medical-fitness-x-rays-1.61745634>

https://www.zawya.com/mena/en/story/Artificial_Intelligence_could_eradicate_Tuberculosis_UAE_Minister_of_State_for_AI-ZAWYA20181022113234/

<https://gulfnews.com/going-out/society/dha-to-use-artificial-intelligence-to-sort-medical-fitness-x-rays-1.2166166>

<https://www.thenational.ae/uae/health/artificial-intelligence-to-be-used-in-urgent-fight-against-tuberculosis-says-uae-minister-1.783316>

Aviruk Chakraborty is a co-founder of Capita World, India's premier artificial intelligence enabled fund raising platforms.

<https://yourstory.com/2017/05/capitaworld-startup/>

<https://www.forbes.com/sites/sindhujabalaji/2017/06/13/why-indians-fintech-startups-are-flocking-to-disrupt-the-uae-middle-east/#79177c7b3aa5>

<http://idrbt.ac.in/ibac-2.html>

Aviruk Chakraborty is an advisor to Andhra Pradesh government's economic development board and has been instrumental in defining the roadmap for hyperloop implementation in Andhra Pradesh.

<https://www.financialexpress.com/industry/hyperloop-may-cut-travel-time-between-vijaywada-and-amravati-from-45-minutes-to-5-minutes-is-this-radical-find-out/869271/>

Our past educational endeavours which has helped us in understanding the education landscape in India and which has become the foundation of the current innovation university project being undertaken by Archeron group today.

https://www.business-standard.com/article/current-affairs/whistling-group-to-set-up-university-in-gujarat-in-tie-up-with-oxford-arm-113111200938_1.html

<https://economictimes.indiatimes.com/industry/services/education/oxfords-arm-joins-hands-with-gujarats-private-firm-to-set-up-university/articleshow/25654470.cms>

Various policy advisory forums in which we have participated.

<https://economictimes.indiatimes.com/news/politics-and-nation/political-campaigning-likely-to-assume-green-hues/articleshow/13455913.cms?from=mdr>

<http://policywonks.in/commentary/financing-urban-infrastructurecan-municipal-bonds-be-an-option>

ARCHERON GROUP IN ADIABATIC QUANTUM COMPUTING CONFERENCE IN NASA (National Aeronautics and Space Administration) in their AMES RESEARCH CENTRE IN MOUNTAIN VIEW.

<https://riacs.usra.edu/quantum/aqc2018/>

Archeron Group's Aviruk Chakraborty in discussions about the recent Indo-UAE AI collaboration bridge signed between both the nations. [Radio Interview]

<https://omny.fm/shows/businessbreakfast/archeron-14-08-2018>

<https://www.youtube.com/watch?v=MHSufjhSDdM&t=4s>

Sign Language Platform in Arab Health 2020

<https://www.dubai92.com/trending/uae/new-app-to-help-speech-and-hearing-impaired-patients-in-uae/>

<https://www.mohap.gov.ae/en/MediaCenter/News/Pages/2282.aspx>