

ARYA SEKHAR BANDOPADHYAY

SOFTWARE DEVELOPMENT MAESTRO DATA ANALYST MACHINE LEARNING ENGINEER
FULL STACK DEVELOPMENT EXPERT CROSS-FUNCTIONAL TEAM LEADER

Represented India in **Google Hackathon** finals | Directed the team on **patented project** – LoadAB | Engineered the entire admin side @ Ovonts to grow it as the **largest media management firm** in Kolkata | Received media appreciations for **constructing and launching surakshacovid19.tech**, a COVID19 dashboard | Worked in a consultancy start up named Dataly and serving as its **Head AI/Web Developer**.

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Portfolio

An **award-winning Software Development Expert** specialized in developing and building highly complex software applications with hands-on expertise in **Machine Learning algorithms, Data Science, Business Analytics, and Full Stack engineering** to deliver best-in-class technical solutions and drive business growth initiatives. A highly competent team leader capable of functioning efficiently in a fast-paced, deadline-driven and dynamic work environment; demonstrates excellence in **developing stack architectures** and **delivering capabilities** across marketplace.



EDUCATIONAL BACKGROUND

2017 - Present

SRM Institute of Science and Technology ▶ Bachelor of Technology (CSE)

2017

DAV Model School ▶ Class 12 (PCM) – CBSE Board | 90.4 %

2015

St Vincent's High and Technical School ▶ Class 10 (PCMB) - ICSE Board | 90.4 %



INTERNSHIPS EXPERIENCE

Head React Developer | May '20 – Present

Dataly, Chennai

- Designs complex and diverse projects including full scale apps and websites and provisions Analytics and AI solutions to companies.
- Participates in the execution of all development stages from concept, to deployment, to live website.

Game Development Research Intern | Jun '20 – Aug '20

RedFox Labs, Vietnam

- Performs scraping of relevant data regarding blockchain based games and helping them take data driven decisions.
- Creates and maintains reliable, scalable, and high-performance systems and tools to enable best gameplay experiences.

Full Stack Web Development and Data Analytics | Nov '19 – Jan '20

Ovonts, Kolkata

- Delivers working and well-structured JavaScript code, including an API and modules like a UI framework, document object model, etc.
- Manages individual / team project priorities, deadlines and deliverables in an agile work environment.

Machine Learning Researcher | Jan '20 – Present

SRM Research Labs, SRMIST, Chennai

- Designs and develops robust and efficient machine-learning and deep-learning algorithms.
- Implements machine learning methods drawn from diverse areas such as neural networks, deep learning, NLP and approximate inference.

Blockchain Researcher | Mar '20 – Present

SRM Research Labs, SRMIST, Chennai

- Conducts extensive research on some of the critical issues in building high performance blockchain platforms.
- Works closely with the team to research, develop and test blockchain applications to enable efficient distributed system management solution.



WINNING PORTFOLIO

- Highly recognized and interviewed by top news channels including Zee News for successfully constructing and launching **surakshacovid19.tech**
- Secured top position in finals of **Google Hackathon**
- Functioned as **beta-Microsoft Student Partner**
- Currently leveraging technical expertise on a **patented project**
- Received a **funded project** from UP Police Dept
- Serving as a **Technical Lead** @ Microsoft Student Partners SRM and **Machine Learning Associate** @ Next Tech Lab

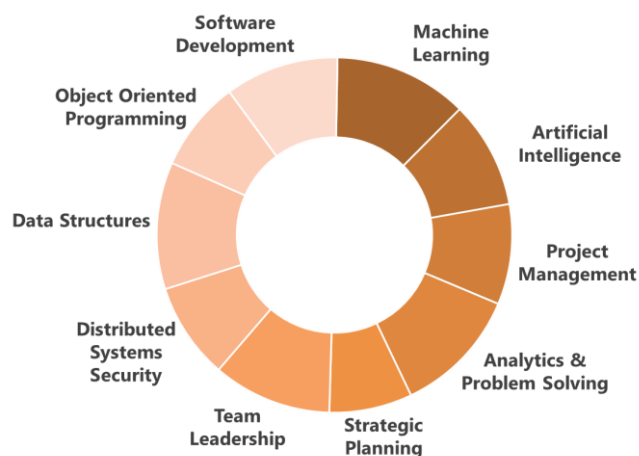


AWARDS & RECOGNITIONS

- Best Paper Award** ▶ International Conference on IOT | Jan '20
- Paper Presentation** ▶ International Conference on Information, Communication & Networking | Jul '20
- Finalist C19 Bioinformatics Hackathon** ▶ IIT Madras Jul '20
- Google Hackathon Finalist** ▶ Google | May '20
- Project and Assessment completion** ▶ NVIDIA DLI | Oct '19
- Advanced Proficiency in C++ and Data Structures**
- First Prize in Physics Techknow Exhibition** ▶ SRMIST | Apr '18
- Project Completion and Appreciation Certificate** ▶ MyWbut | Jan '19



CORE COMPETENCIES



Data Science and Blockchain Developer Intern | Mar '20 – Jul '20

RedFox Labs, Vietnam

- Led research in the advanced areas of artificial intelligence, data mining, machine learning, and deep learning.
- Experimented with machine learning algorithms to solve critical business problems and identify risk, fraud or natural language processing.

Full Stack Developer | May '20 – Aug '20

Gaius Network

- Assembled production level solutions for the platform which served as a means to connect hyperlocal communities together; formed 10k active user base for the platform.
- Built highly-reliable and scalable products in full-stack; leveraged full advantage of its features and flexibility.

Data Science Intern | Jun '19 – July '19

Kaashiv Infotech, Chennai

- Identified and collated datasets while creating and applying advanced data analytics models using statistical and machine learning techniques.
- Assisted and directed the team in day-to-day jobs and projects.

Machine Learning Trainee | Dec '18 – Jan '19

MyWbut, Kolkata

- Utilized big data analytics tools and applied analytical techniques for data retrieval, preparation, and discovery.
- Worked with massive datasets to develop both generic models as well as fine tune models.



TECHNICAL SKILLS

Software	Pandas, Scikit-Learn, NumPy, OpenCV, Keras, Flutter
Image & Natural Language Processing	Tensorflow, Pytorch
Business Analytics Tools	Tableau, Power BI, Big Data Analytics
Full Stack Web Development	MEAN Stack, MERN Stack, Flask, Optimizations, SSH
Blockchain Based Network	SHA256, Consensus Protocols, Smart Contracts, Immutable Ledgers, BitCoin working and mining, ASIC Devices
Cloud Software	AWS, Azure
Language	C/C++, R, JavaScript, Python, PHP
Framework	AngularJS, React.js

Other: Recommender Systems, Text Processing, Text Mining, Microprocessors, Recurrent Neural Networks, Blockchain, Artificial Neural Networks, Machine Learning, Data Structures, Convolutional Neural Networks, Artificial Intelligence



CERTIFICATIONS

- ★ Neural Networks and Deep learning ➤ Coursera
- ★ Blockchain Fundamentals ➤ Coursera
- ★ Data Science ➤ 365 Data Science
- ★ Machine Learning by Andrew NG ➤ Coursera
- ★ Deep Learning Specialization ➤ Coursera
- ★ ReactJS | AngularJS | MongoDB | MySQL | Image Processing | Natural Language Processing | Databases | Nodejs | Blockchain

Training acquired: Machine Learning and Data Analytics with Python



VOLUNTEERING

CSI Volunteer at AARUUSH | Aug '17 – Jul '18

Role: Volunteered and spearheaded crisis management and crowd handling

Cause: Techno Management Fair



PERSONAL DOSSIER

Date of Birth: 7th April 1998

Language Proficiency: English, Hindi, German, Bengali

Nationality: Indian

Address: Uttaran, Purbasha, P.O. Kuti, Dist- Paschim Burdwan, Asansol, West Bengal – 713343



PROJECTS ADMINISTERED

- ★ Twitter Scraping and Analytics - Machine Learning | Jul '20 – Present
- ★ LoadAB (Marketplace for Raw Materials) - Web Development | Jun '20 – Present
- ★ Blockchain Based Fake News Filtering – Blockchain | Mar '20 – Present
- ★ Cyber Profiling and Prevention of Cyber Bullying | Jan '20 – Present
- ★ Suraksha Covid 19 - Webdev and Analytics | Apr '20 – Jun '20
- ★ Basic Apps using Flutter – APP Dev | May '20 – Present
- ★ Online File Explorer – Web Development | May '20 – Jun '20
- ★ Web Interface for predicting Diabetes | May '20 – May '20
- ★ StatsBureau - Web Development and Data Analytics | Mar '20 – Jun '20
- ★ Waste, Pothole and Stray cattle Reporter - Full Stack | Jan '20 – Jan '20
- ★ Video Caption generator – Deep Learning | Jan '20 – Feb '20
- ★ Recommender System using Boltzmann Machines and Stacked AutoEncoders | Mar '20 – Mar '20
- ★ Data Analysis and Dashboard (Web Development) | Nov '19 – Jan '20
- ★ Object Detection using YOLO - Deep learning | Oct '19 – Oct '19
- ★ Object Classification via Transfer Learning - Deep learning | Sep '19 – Sep '19
- ★ MNIST Digit Generator using GAN - Deep learning | Sep '19 – Oct '19
- ★ Resume Parser using Spacy - Deep learning and NLP | Aug '19 – Aug '19
- ★ EDA on Various Datasets - Data Analytics | Jan '19 – Sep '19
- ★ Email Spam Classification - Machine Learning | Jan '19 – Jan '19
- ★ Book Recommender System - Machine Learning | Dec '18 – Jan '19
- ★ GAN in Keras and Pytorch
- ★ Chatbot on reddit data
- ★ Drowsiness Detection System
- ★ Garbage Detector and Classifier presented in SIH