Aishik Nagar

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🎓 EDUCATION

Bachelor of Engineering in Electrical and Electronics Engineering (Minor in Business and Mathematics) | Nanyang Technological University, Singapore

2018-2022

- Nanyang Science and Engineering Scholar (by Ministry of Education, Singapore and NTU): 100% Scholarship including coverage of tuition fee, living and miscellaneous expenses.
- Offered Accelerated Bachelors Program (ABP): Opportunity for top performing students to complete undergraduate education in 3.5 years instead of 4 years.
- Relevant Courses done: *1) Data Structures and Algorithms 2) Introduction to Data Science and Artificial Intelligence 3) Digital Electronics 4) Circuit Analysis 5) Analog Electronics 6) Signals and Systems 7) Engineering Mathematics 8) Computational Thinking and Programming 9) Semiconductor Fundamentals 10) Accounting (A users Perspective) 11) Business Finance 12) Marketing in the 21st Century 13) Fundamentals of Management 14) Mathematics in real world applications.*

Indian Standard 12 and 10 | The Heritage School, Kolkata

2015-2018

- Indian Standard 12 ISC Board Examinations – 98.75% (All India Rank 4)
- Awarded Outstanding Student Personality in Grade 12
- School Vice-Captain in Grade 12
- Student Council Leader and 'House' Vice Captain in Grade 11
- Indian Standard 10 ICSE Board Examination- 97%

💼 EXPERIENCE

NTU URECA Research Program | Nanyang Technological University, Singapore

2019

- Selected for strictly invitation-based research program - NTU Undergraduate Research Experience on Campus (URECA), awarded to the top performing students of the cohort.
- Project- "Robust Convolutional Neural Networks". Using Deep Learning, Convolutional Neural Networks and TensorFlow for the same.

Tech Director, IEEE Branch | Nanyang Technological University, Singapore

2019-2020

- Responsible for organizing hackathons such as 'iNTUition', the flagship hackathon of NTU.
- Conducting workshops and bootcamps on topics such as Python programming, Machine Learning and Data Science, Web development and Deep learning.

Training and Development, Garage@EEE | Nanyang Technological University, Singapore

2019-2020

- Technical Head for building the 'Inventory Management System' Website for managing all makerspaces in NTU, as a part of the Training and Development Department.

- Working on Industry project with *nuTonomy* on object detection and prediction.
- Using Deep Learning, Computer Vision, Depth Detection and machine learning for the project.

SKILLS AND PROJECTS

- **Edu-pic:** Built a web-app which lets users click a picture of an object and scrapes the web to give the user the science behind the object – As a part of the EnlighteNUS Hackathon (Placed in top 7 for the hack). Used *1) Flask 2) HTML 3) CSS 4) JavaScript 5) OpenCV 6) Google cloud vision API 7) Natural Language Processing 8) Web scraping* in the project.
- **Craigslist-clone:** Built a clone of Craigslist using 1) *HTML 2) CSS 3) JavaScript 4)Bootstrap 5) Django 6) BeautifulSoup* which provides a cleaner interface to scrape data off craigslist.
- **Sherlocked- VR:** Built a Virtual Reality Escape room game using *1) Unity Engine 2) C#* as a part of NUS Hack&Roll Hackathon.
- **Olympic Dataset Analysis –** Used *1) Python 2) Pandas 3) Numpy 4) Seaborn 5) Plotly 6) Cufflinks 7) Geographical mapping 8) Matplotlib 9) Machine learning (Linear regression, PCA, Logistic regression, K-means clustering, K-nearest Neighbors, Decision Trees and Random Forests)* to make predict what medal a user might win at the Olympics given their Age, BMI and Country. Made *a Telegram bot* to make the project interactive for the user.
- **Movie Recommender System –** Made a movie recommender system using 1) *Python 2) Pandas 3) Numpy 4) Machine Learning.*
- **Other Skills and Projects –** 1) *Data science in Python 2) OpenCV 3) Computer Vision 4) Deep learning 5) TensorFlow 6) HTML 7) CSS 8) Bootstrap 9) ReactJS 10) JavaScript 11) jQuery 12) GitHub and version control*
- **Programming Knowledge-** *Python, Java, C, C++, C#*
- Microsoft Office Suite- Word, Excel, PowerPoint, Outlook, OneNote, Teams
- Miscellaneous Skills – Knowledge in using Wordpress, Blender, Google Cloud services, Scala and Spark for Big Data and Machine Learning
- Full Professional Proficiency in English, Hindi and Bangla Languages.

ACHIEVEMENTS AND AWARDS

- Indian Standard 12 Board Examinations: All India Rank 4 (School Topper)
- Felicitated by the Governor and Chief Minister of West Bengal, India for outstanding academic performance in national high school examinations.
- Voted 'Outstanding Student Personality' in High school for overall excellence in Academics, Leadership and Co-curricular activities.
- Recipient of the INSPIRE Scholarship by the Government of India for being in the top 1% performers in National Examinations.
- Head of Executive, "Youthopia" – The largest student organized fest of the State with a budget of 55,000 Sgd and over 300 student volunteers.