

EDUCATION

- **Indian Institute of Technology** Kharagpur, India
B.S + M.S. - Mathematics and Computing; GPA: 7.48 July 2015 - June 2020
- **AVB Public School** Delhi, India
CBSE Senior School Certificate Examination; 93.6% 2015

EXPERIENCE

- **Microsoft** Hyderabad, India
Software Engineer 2 Mar 2023 - Present
 - Played a pivotal role in the Viva Connections Mobile team from its early stages, contributing meaningfully to its development and taking ownership of key initiatives, helping scale the app to over **7M Monthly Active Users (MAU)**
 - Independently developed critical features using **React Native & TypeScript**, driving user engagement and improving the experience for **1M+ users**. Key contributions enabled premium features with focus on performance and reliability
 - Architected a high level design for **Operator Insights engine** enabling data-driven insights for tenant admins
 - Led the migration of the News Feed Pivot of app to new service from **GraphQL to REST** endpoint re-architecting the mobile client to be robust and performant using **Context API and custom hooks**
 - Efficiently resolved critical customer issues, enhancing productivity by promptly addressing concerns within SLA timelines.
 - Drove the Day of Learning initiative within the team to promote holistic learning and Microsoft's **Learn it all** culture
- **Microsoft** Hyderabad, India
Software Engineer Jul 2020 - Mar 2023
 - Implemented **data partitioning and scoping paradigm for the whole app** which is crucial for **5+ scenarios** with multiple active instances of application sharing the same **JavaScript runtime**
 - Developed the link interception and identification module to identify different links, which successfully navigates **2M+ users** to the right experience with a reliability of **99.9%**
 - Collaborated with Designers and Product Managers across different geographies to ship features with focus on **Experience, Performance and Reliability**
 - Created developer tools within the app **for a better developer experience** saving upto 60+ man hours monthly
- **Samsung Research Institute** Bengaluru, India
Research Intern May 2019 - July 2019
 - Developed Deep Learning solution to **eliminate the calibration process** for wearable controller, using Tensorflow & Keras
 - Designed a **Recurrent Neural Network(RNN) model** to predict calibration parameters, reducing error by **75%**
 - Formulated a **specialized loss function** to quantify angular discrepancies in IMU sensor arrays for model training
 - Implemented **data augmentation** to fully represent quaternion space, increasing the robustness and accuracy of the model
- **Prakshep** Bengaluru, India
Data Science Intern May 2018 - June 2018
 - Analysed **satellite imagery using Python** to study moisture trends in farms, supporting farmers in decision making.
 - Used **Sentinel-2 images** and **Image Processing** to classify water bodies, agricultural areas, and urban regions
 - Designed a **model based on Z-scores of indices** to identify optimal and outlier plots based on their moisture content
 - Developed API using Flask and Python to compute **Central Tendency Measures** of indices for plots & implemented paper on **cloud detection**
- **Farebond** Bengaluru, India
Data Science Intern May 2017-Aug 2017
 - Contributed to option pricing model based project **Pricing of Fare Locks** for flights, enhancing flexibility of booking tickets
 - Designed **tier-based pricing model** that categorizes flights based on fare volatility and assigns prices to their **Locks**
 - Developed **automated reporting system** using R & R markdown, leading to time-saving (**60+ monthly man-hours**)
 - Automated generation of interactive visualisations using R for analysing pre-processed data to monitor anomalies in trends

SKILLS SUMMARY

- | | | | |
|--------------|----------------|-------|--------------|
| • JavaScript | • React Native | • C++ | • Swift |
| • React | • Git | • SQL | • C# |
| • Python | • CI/CD | • KQL | • Tensorflow |

PROJECTS

- **EthPhoto : Decentralized web application — OpenSoft , IIT Kharagpur** Mar 2017
 - Developed a decentralized application for geo-tagged photo sharing on the **Ethereum blockchain using Solidity**
 - Photos and meta-data are uploaded to Inter Planetary File System (**IPFS**) and corresponding hash is stored on Ethereum
 - Contributed in development of a responsive GUI of the web based application using JavaScript, HTML and CSS