DERIL RAJU

Boston, MA

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Education

Northeastern University	**July 2024**
Master of Science in Computer Science	*Boston, MA*
Birla Institute of Technology	**July 2020**
Bachelor's of Engineering in Electronics and Communication Engineering — GPA 8.59/10	*Ranchi, India*

Relevant Coursework

- Program Design Paradigm
- Database Management Systems
- Data Structures and Algorithms
- Neural Networks
- Computer Networks

Technical Skills

Languages: Python, Java, R, C++, SQL

Libraries and Frameworks: Pandas, Numpy, ElasticSearch, MaterialUI, Shiny, SciKit, Tensorflow, Prophet, FastAPI, Flask, React, Angular

Technologies/Frameworks: Jenkins, Kubernetes, Docker, Airflow, GitHub, Grafana

Experience

Societe Generale — **Jan 2020 – Jul 2022**
[Data Science and Automation] Software Engineer — *Bangalore, India*

- Implemented full stack projects serving clients for different infrastructures adopting CI/CD pipeline to ensure auto-deployment of scripts with quality code and minimal error.
- Established a capacity planning dashboard that helped several teams forecast failures in their file systems using time series forecasting.
- Implemented "In Production" code solutions for auto ticket and auto healing solutions using NLP to reduce failure risk and minimize human efforts.
- Established several automation reports and KPIs using Python and R for different management teams saving 15+ manual hours effort every week.

Research Centre Imarat, DRDO — **May 2018 – June 2018**
Research Intern — *Hyderabad, India*

- Part of the research team for developing a pulse width modulating wave for degaussing in optical systems.
- Developed a C code that was lightweight and more efficient than the one existing at the organization.

Projects

File Transfer Prediction | *Python, R, Grafana* — **Sept 2021**

- Streamlined an end to end pipeline to predict number of file transfers and total size of file transfers that will occur over next 3 months.
- Uses Prophet to predict the CPU usage. This helps the teams in identifying when a filesystem might break thus helping in disaster recovery.

Face Mask Detector using MobileNetV2 | *Python* — **July 2020**

- Implemented a face mask detector using MobileNetV2 model written in tensorflow, achieving an accuracy over 91% in detecting face masks.

Musafir, A Tourist App | *NodeJS, React Native, JavaScript* — **May 2019**

- Designed an end to end tourist app for travellers to find near by tourist guides that can guide them for sightseeing.
- Included features such as language compatibility and rating system.

Honors and Award

Co-Author: Multimedia Tools and Applications 2022 (Impact IF: 2.75)	**March 2022**
Multi-level image security using elliptic curve and magic matrix with advanced encryption standard	*Springer Publication*
Certified Citizen Data Scientist and Data Stewardship	**October 2021**
Contributed towards innovation of proactive determination of incidents using application logs	*Societe Generale*

Leadership and Activities

Star of the Quarter | *Societe Generale* — **Dec 2021**

Awarded for spearheading Airflow implementation across different teams solving over 500 tickets per month.