

MANIT BASER

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Education

Birla Institute of Technology and Science, Pilani

Aug. 2017 – June, 2021

Bachelor of Engineering, Electrical and Electronics Engineering

CGPA: 8.39

Technical Skills

Languages: Java, C++, Python, JavaScript, MATLAB

Libraries/Frameworks: Dropwizard, Django, Flask, MongoDB, MySQL, TensorFlow, Keras, PyTorch

Other Proficiencies: Backend Development, Machine Learning, Deep Learning, Computer Vision

Experience

Flipkart

June 2021 – Present

Software Development Engineer

Bangalore

- Integrated Java Instrumentation API to export metrics using MBeans to Grafana Dashboard for automated monitoring.
- Parallelised external service calls for chatbot operations, resulted in reduced execution time by 60%.
- Implemented various features for Dialog Manager for enabling interactive dialogue.

Draup

July 2020 – December 2020

Software Development Intern

Bangalore

- Developed various features for the Talent platform using Django, REST APIs, PostgreSQL and Git.
- Optimized the existing APIs in QA platform and reduced the DB hit frequency to enhance data retrieval.
- Optimized the imports and eliminated the circular dependencies in the pipeline.

Sun Mobility

May 2019 – August 2019

Software Development Intern

Bangalore

- Developed Flask based SmartLine applications and hosted them on Apache server.
- Developed a QR based login system for SmartLine applications for faster access.
- Developed an algorithm on anomaly detection in the live data transmitted by the smart batteries.

Achievements and Research Publications

Real-Time Foreground Segmentation for Video Sequences with Dynamic Background

December 2020

Presented in 17th IEEE India Council International Conference (INDICON 2020).

Automatic Threat Detection in Baggage Security Imagery using Deep Learning Models

December 2020

Presented in 15th IEEE International Conference on Industrial and Information Systems (ICIIS 2020).

National 2nd Runner-Up | AB InBev's Maverick 2.0 Botathon

May 2021

Secured Second Runner-Up position in the Grand Finale, with more than 500 teams, and won a cash prize for our product.

National Finalists | Flipkart GRiD 2.0

August 2020

Secured a position in the top 3 teams in Noise Detection & Cancellation track and top 9 teams in the Grand Finale with more than 22,000 participants.

Global Runner-Up | #EUvsVirus | European Commission

May 2020

Secured second position in the Real-time Communication & Prevention track. Organised by the European Innovation Council, with over 9,000 participants. The META Group awarded us with award money.

Projects

Interactive Voice Response Chatbot

May 2021

- Developed an IVR Chatbot with integrated text-to-speech & speech-to-text APIs using Rasa 2.0.
- Implemented REST APIs to support multiple clients like a slack channel, discord server, web or android interface.
- Implemented a language translation layer for Multilingual support.

Cross-Sell & Up-Sell Recommender System

May 2021

- Developed a recommender system for cross-sell and upsell of products to enable higher revenue generation.
- Implemented Cosine Similarity of Vectors & K-means clustering methodology to generate recommendations.
- Developed a feedback mechanism to implement blacklisting for certain combinations on the Sales Team's end.

CoviFight

April 2020

- Led a team of 13 and developed a three-tier contact tracing solution to trace and contain the COVID-19 spread.
- CoviFight alerts users about their chances of catching the virus by advanced contact tracing methodology.
- It generates maps with hotspots for what places have virus trace and regulates selective lockdown for virus containment.