

# MANIT BASER

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## Education

**Birla Institute of Technology and Science, Pilani**

**Aug. 2017 – June, 2021**

*Bachelor of Engineering (Hons.), Electrical and Electronics Engineering*

*CGPA: 8.39*

## Technical Skills

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

**Libraries/Frameworks:** Django, Flask, Node.js, MongoDB, MySQL, TensorFlow, Keras, PyTorch

**Other skills:** Backend Development, Machine Learning, Deep Learning, Computer Vision, NLP

## Experience

**Flipkart**

**June 2021 – Present**

*Software Development Engineer*

*Bangalore*

**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*

- Backend development of Flask-based SmartLine applications and hosting them on Apache server.
- Development of a QR based login system for SmartLine applications for faster access.
- Development of 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 9000 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.