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EDUCATION

Bachelor of Technology in Electrical and Electronics Engineering, **[June 2018]**
National Institute of Technology, Calicut
GPA: 8.84/10

PROFESSIONAL EXPERIENCE

Target Corporation, Bangalore, India **[July 2018- Present]**
Designation: Engineer

- Developed scalable and efficient REpresentational State Transfer (REST) APIs in micro-service architecture as real-time solutions to supply chain management problems.
- Worked on Long-Range Forecasting to solve *clearance-optimization problems* using historical sales data, building the data pipeline for sales prediction.
- Working on designing and deployment of event-driven systems using open source web technologies.
- Built an Automation system for price recommendations and inventory optimization for Target stores during end-of-season sales.

INTERNSHIPS

Sunren Technology, Mumbai **[May 2017 - June 2017]**

- Worked on maintaining international testing-standards for the IT equipment in the telecom sector.

Fran Biz Corporation, Online Internship **[May 2017 - August 2018]**

- Worked on quality enhancements of teaching materials for physics and mathematics for National Engineering Entrance Examinations in India.

PROJECTS

ML-classification model comparison for wine dataset **[May 2019 - Present]**
Objective: To predict wine quality based on the wine dataset as a part of supervised learning problem

- Developed and compared the performances of classification models using scikit-learn library.
- Impact of feature processing on prediction results were analyzed to derive ideal training data.
- Derived efficient algorithm using ensembling.(https://github.com/samz007/classifiers-comparison.git)

Natural Language Processing to classify review comments **[May 2019 - Present]**
Objective: To build a model that can predict the tone of the text given as input as a part of sentiment analysis.

- Review comments from Amazon and IMDB customers were combined and processed to build NLP model in supervised learning using python libraries.
- Developed algorithm to find the best fit model.(https://github.com/samz007/nlp-model-comparison)

Harmonic waveform extraction in semiconductor devices **[July 2017 - May 2018]**
Objective: To detect and improve the power distortion caused by non-linear loads

- Algorithms to extract harmonic waveform were simulated and compared in MATLAB software
- Circuit was built using electronic components replacing the embedded microcontroller.
- With the help of the circuit, flow of embedded code at the electronic component level was studied.

Fingerprint based door lock system **[Jan 2017 - May 2017]**
Objective: To implement image processing algorithm for biometric security system

- Studied image matching algorithms and embedded libraries for biometric detection.
- Efficient fingerprint matching algorithm was implemented using Arduino microcontroller for door lock system.

SKILLS

- **Programming Languages**: C, C++, Java, Groovy, Kotlin, Python, Matlab, Octave.
- **Machine Learning**: Hadoop, Apache hive, Tensorflow, ScikitLearn, PySpark.
- **Web development**: Apache Kafka, Elasticsearch, Kibana, Redis, Kubernetes, Drone.
- **Frameworks**: Spring-boot, Django, JUnit Testing framework, Spock Testing framework.
- **Database Systems**: PostgreSQL, OracleDb, Cassandra
- **Android application development**: Azure App Service Mobile Apps, IDE- Android Visual Studio.

ACHIEVEMENTS AND PARTICIPATIONS:

- Badge holder with **C++ international practice rank -1123** at HackerRank, November 2019
- **Winner of codelympics- Hackathon** by NEC IIT Bombay, Dare2Compete, and NIT Agartala, December-2017
- Participated in the workshop-**"Applied CS for Android" by Google** conducted at NIT Calicut, January 2018
- Actively participating in the **contributions to open-source** technologies such as Elasticsearch, Kafka.
- Active coder on **Kaggle-**platform for Machine Learning competitions, since May 2018.

EXTRA-CURRICULAR ACTIVITIES:

- Implemented the programming of Radio Controlled Aircraft- for winning model at Society of Automotive Engineers all India Aero-Modelling competition at Chennai, March 2016.
- International Chess player with FIDE rating- 1546.
- Organized one of the cultural festivals-‘Ganesh Chaturthi’ in the college campus, August 2016.