

SKILLS

- Python, SQL, JavaScript, C#, Tableau, Git, NumPy, Pandas, Statistical Modelling, Hypothesis Testing, AWS, Docker, A/B Testing, Machine Learning, Supervised Learning, Unsupervised Learning, TensorFlow, PyTorch, Deep Learning, NLP, Computer Vision

EXPERIENCE

Software Development Engineer 2

Aug 2021 - Present

Aurigo Software Technologies

- Currently working on a pilot project, fine-tuning **Llama 2** with customer entry data spanning the past 20 years to provide rapid insights for existing projects, predicting project timelines and costs with precision, enabling preemptive actions, and mitigating risks.
- Executed data migration activities using Python libraries like **NumPy** and **Pandas**, achieving a **30%** reduction in data processing time.
- Enhanced the message configurator **API** handling over **10,000** messages by implementing complex **SQL** scripts, improving data management efficiency.
- Optimized in-app email sender, achieving a **21%** performance boost through asynchronous processing and bulk insert operations.

Engineering Intern

Feb 2021 - Aug 2021

Aeronautical Development Agency (ADA-DRDO)

- Developed a GUI simulator using C++ and the Qt Framework to replicate Laser Designator Pod functionality in combat aircraft.
- Improved avionics and weapons systems simulator software, achieving a 30% increase in accuracy over the baseline model.
- Optimized real-time geographical calculations, enhancing data processing precision by 25% and increasing efficiency by 20%.

PROJECTS

DriverPulse

<https://github.com/iopenattheclose/ola>

- Developed a machine learning classification model to predict driver churn for Ola, leveraging a dataset of 100K driver records.
- Utilised ensemble learning techniques such as **bagging** and **boosting** and achieved an accuracy of **87%** after using **SMOTE** and **'k'-fold cross-validation** method.
- Deployed it as web-application using **Flask** on **AWS EC2** platform using **Docker** containerisation and GitHub workflow actions. The model's insights into factors contributing to driver attrition can significantly impact retention strategies, reducing turnover rates and associated costs

Loan Tap

<https://github.com/iopenattheclose/LoanPredictor>

- Constructed a machine learning model for loan prediction using **Logistic Regression**, achieving **85%** accuracy through feature engineering and k-fold cross-validation.
- Implemented data preprocessing and feature engineering techniques to enhance prediction accuracy, facilitating targeted retention strategies that improved customer engagement.
- Developed and deployed a web application using **Flask** on **AWS EC2**, leveraging **Docker** for containerization and GitHub Actions for streamlined **CI/CD** workflows.

NewsClassificationRNN

<https://github.com/iopenattheclose/NewsClassificationRNN>

- Developed RNN-based news categorization system to classify news articles into multiple categories, improving content organization and accessibility, achieving an accuracy of **79%**.
- Applied advanced NLP techniques, including **tokenization** and **embedding generation**, to preprocess and feed text data into the RNN model for improved classification accuracy.

ACHIEVEMENTS

- Innovation Award** : Developed an in-app, real-time currency converter, which converted all units to the desired currency. This feature was later included in the product roadmap.
- Team Award** : Recognized for delivering exceptional performance and outstanding contributions to the project, resulting in significant advancements and achievements.

EDUCATION

Scaler

2024

Specialized in Data Science & Machine Learning

RVCE

2021

BE/B.Tech/BS

Bachelor of Engineering in Electronics and Telecommunication