Navneeth Premanand

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Professional Summary

Data Analyst with Master's degree in Data Science and proven expertise in transforming complex datasets into actionable insights. Published IEEE researcher with hands-on experience in machine learning, statistical analysis, and data visualization. Skilled at building interactive dashboards, optimizing data pipelines, and collaborating with stakeholders to drive data-driven decision-making and operational efficiency.

Technical Skills

Data Analysis: Python (Pandas, NumPy), R, SQL, Excel, Statistical Analysis, Hypothesis Testing, Time Series Analysis

Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Chart.js, Dashboard Development, KPI Design

Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, Computer Vision (CNN), NLP, Time Series Forecasting, Model Evaluation, Hyperparameter Tuning

Data Engineering: ETL Pipelines, Data Cleaning, Feature Engineering, Data Modeling, MongoDB Aggregation

Databases: MongoDB, MySQL

Programming: Python, JavaScript/TypeScript, React, Node.js, REST APIs, Git/GitHub

Cloud & Tools: AWS (EC2, S3, Lambda, Route 53, IAM), Google Analytics

Professional Experience

Full Stack Developer — **May 2025 – Nov 2025**
Flo Mobility — *Bengaluru, India (Remote to Dubai)*

- Built interactive analytics dashboard with 10+ visualizations using React and Chart.js to monitor KPIs, downtime patterns, and productivity metrics for 50+ autonomous robot fleet operations
- Optimized MongoDB aggregation pipelines and indexing strategies, significantly improving query performance for analytics and reporting workflows
- Collaborated with stakeholders to identify data requirements and pain points, delivering dashboard features that streamlined reporting and enhanced data-driven decision-making
- Enhanced full-stack platform architecture (React web app, React Native mobile app, MongoDB, AWS) to support real-time operational analytics

Full Stack Developer (Contract) — **Aug 2024 – Apr 2025**
Rynova Trade LLC — *Dubai, UAE*

- Led complete project lifecycle from requirements gathering to production deployment, developing responsive React-TypeScript corporate website aligned with business objectives
- Configured Google Analytics tracking and built performance dashboards to analyze user behavior, traffic patterns, and conversion metrics, delivering actionable insights to stakeholders
- Deployed production solution on AWS (EC2, Route 53, SSL) with automated CI/CD pipelines using GitHub Actions

Business Process Automation Intern — **Feb 2024 – Apr 2024**
ACZ Global Pvt Ltd — *Bengaluru, India*

- Documented end-to-end business processes and created System Requirement Specifications (SRS) for predictive model development initiatives

- Conducted workflow analysis and process mapping to identify automation opportunities and document data flow requirements supporting data-driven decisions

AI Engineering Intern **Jun 2023**
Open Weaver *Bengaluru, India*

- Performed exploratory data analysis (EDA) and feature engineering on medical imaging datasets to prepare data for deep learning model development
- Implemented and evaluated CNN models for breast cancer classification using TensorFlow and Keras, conducting comparative performance analysis across multiple architectures
- Created analytical reports and visualizations using Python to communicate technical findings and model performance metrics to non-technical stakeholders

Full Stack Developer **Sep 2021 – Sep 2022**
ACZ Global Pvt Ltd *Bengaluru, India*

- Designed and deployed ERP/HRMS solution for 40+ users using MERN Stack (MongoDB, Express, React, Node.js) on AWS infrastructure (EC2, Route 53, IAM)
- Gathered requirements, conducted user acceptance testing, and facilitated change management for digital transformation initiative transitioning to paperless workflows

Projects & Research

Performance Evaluation of CNNs for Stellar Image Classification | *Published in IEEE Xplore*

- Conducted comparative study of CNN architectures (VGG16, ResNet, Parallel CNN) for astronomical star-galaxy classification using SDSS dataset
- Implemented complete ML pipeline including data preprocessing, feature engineering, model training with TensorFlow/Keras/PyTorch, hyperparameter tuning, and comprehensive statistical evaluation

COVID-19 Detection from Chest X-Rays | *GitHub: CNN-react*

- Developed Parallel CNN architecture using TensorFlow and Keras to predict COVID-19 probability from chest X-ray images
- Applied data preprocessing and augmentation techniques using Pandas, NumPy, and OpenCV to enhance model robustness

Advanced ML Coursework Projects

- NLP: Implemented speech-to-text models using PyTorch and TensorFlow for audio transcription tasks
- Time Series: Built forecasting models applying statistical analysis, data cleaning, and predictive algorithms on temporal datasets

Education

Master of Science in Data Science **2022 – 2024**
Christ University *Bengaluru, India*

- Thesis: Performance Evaluation of Convolutional Neural Networks for Stellar Image Classification (Published in IEEE Xplore)

Bachelor of Science in Computer Science, Mathematics & Statistics **2018 – 2021**
Christ University *Bengaluru, India*

Certifications

- Google Data Analytics Professional Certificate – Coursera
- Business Analysis & Process Management – Coursera
- Data Science 101 – IBM
- Cybersecurity and Internet of Things – University System of Georgia (Coursera)