Mithun S Kumar

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Summary

Computer Science Engineering graduate skilled in Python, SQL, EDA, and statistical modeling. Experienced in building forecasting models, classification systems, and real-world analytics pipelines using Pandas, Scikit-learn, TensorFlow, Power BI, and Tableau. Developed end-to-end projects involving data collection, preprocessing, model development, evaluation, and insights communication. Seeking a Data Analyst / ML role to apply analytical thinking, problem-solving, and predictive modeling to deliver business insights.

Education

Sahyadri College of Engineering and Management, BE in Computer Science — Oct 2020 – May 2024

- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory, Data Structure and Algorithms, Operating Systems, Software Engineering, Computer Networks, Web Technologies

Experience

Data Science and Machine Learning Trainee, Nucot – Bangalore — Sep 2025 – Present

- Performed EDA on multiple datasets — identifying trends and reducing analysis time by 30%.
- Built ML models achieving 85–92% accuracy across supervised tasks.
- Applied hypothesis testing and ANOVA to validate assumptions with 95% confidence.
- Automated preprocessing steps, reducing manual cleanup effort by 40%.
- Designed interactive dashboards used by peers and mentors for tracking performance KPIs.

Full stack developer intern, Swizosoft – Mangaluru — Feb 2024 – Mar 2024

- Collaborated with a team of 5 developers, learning and adopting software development processes and conventions while contributing to a functional job portal and ecommerce platform.
- Developed and tested 7+ frontend components using React.js, HTML, CSS, and Bootstrap, ensuring responsive UI/UX with 95% cross-browser compatibility across devices.
- Designed and implemented RESTful APIs using Node.js and Express.js, performing CRUD operations and integrating MongoDB to manage dynamic product and user data efficiently.
- Integrated Cloudinary for secure media uploads and managed API testing using Postman, ensuring 100% successful data flow validation between frontend and backend layers.

Certifications

Google Data Analytics Professional Certificate - Coursera — Oct 2024 - Jan 2025

AI Prompt Engineering Professional Certificate - Coursera — Oct 2024 - Dec 2024

Projects

Cryptocurrency Trend Forecasting System Using Deep Learning and Sentiment Analysis

- Built an end-to-end crypto price prediction system using LSTM, Prophet, K-Means clustering, and news sentiment analysis; achieved 86% trend detection accuracy across Bitcoin and Ethereum datasets.
- Developed a Streamlit-based interactive dashboard enabling real-time prediction visualization, confidence scoring, and sentiment-driven market insights — improving interpretability and decision support for users by 80-84%.

- Stack: Python, TensorFlow/Keras, Prophet, Scikit-learn, Pandas, NumPy, Matplotlib, TextBlob, News API, Jupyter Notebook, Streamlit.

  Live Demo: crypto-trend-predictor-live

  GitHub: github.com/mithunskumar069/crypto-trend-predictor

Auto Ambulance System

- Built an Android application enabling real-time ambulance booking, GPS-based location tracking, and automated nearest driver assignment — reducing manual response time by 40% through faster request handling and routing logic.
- Designed admin and driver modules with Firebase Realtime Database + Google Maps integration for live notifications, driver-hospital navigation, and delivery of ambulance details to users — improving communication reliability and tracking accuracy by 35%.
- Stack: Java, XML, Android Studio, Firebase Realtime Database, Google Maps API.

  Live Demo: auto-ambulance-system-live

  GitHub: github.com/mithunskumar069/auto-ambulance-system

Predicting goat health using IOT and ML

- Developed an IoT-based smart livestock monitoring system using ESP8266, physiological sensors, and real-time Bluetooth transmission to capture temperature, heart rate, and respiration — improving remote health visibility for breeders by 45% compared to manual checks
- Implemented ML-based anomaly detection and image-based body-size estimation, enabling early health risk prediction and automated alerts — achieving 80% accuracy in detecting abnormal readings and helping farmers intervene proactively
- Stack: Python(Scikit-Learn, Pandas, NumPy), OpenCV, Arduino IDE, ESP8266, IoT Sensors, Android Studio

  Live Demo: goat-health-system-live

  GitHub: github.com/mithunskumar069/GoatHealthDashboard

Skills

Technical Skills

- Python, SQL (joins, window functions), Git, NumPy, Pandas, Scikit-Learn, TensorFlow, Keras
- Tableau, Power BI, Excel, Matplotlib, Seaborn
- Jupyter Notebook, VS Code

Machine Learning Skills

- Supervised/unsupervised models
- Feature engineering
- Model evaluation metrics (MSE, accuracy, F1)
- Time-series forecasting (Prophet, LSTM)