Naveen Kumar

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Education

• University of Tartu

Masters of Computer Science

Tartu, Estonia Aug 2024 - Present

• Kongu Engineering College

Bachelor of Engineering - Computer Science

Tamil Nadu, India Jul 2016 - Jun 2020

Skills Summary

• Languages: Python, PHP, JavaScript, SQL

• Frameworks: TensorFlow, Keras, PyTorch, Scikit-Learn, Django, Laravel, Node.js

• Tools: GIT, PostgreSQL, MySQL, MongoDB

• Platforms: Linux, Web, Windows

• Machine Learning: Supervised Learning, Unsupervised Learning, Ensemble Methods

Projects

- Multimodal Cancer Classification: Implemented a pipeline based on the Cascade of Experts architecture that accepts image or CSV input. A compact router directs images to domain experts (Brain, Kidney, Pancreas, Skin) for fine-grained tumor classification, while CSV inputs are validated and routed to structured-data classifiers. Designed with modularity for production readiness, including clear contracts between router and experts, model versioning, and monitoring.
- Grain Humidity Detection (Machine Learning): Performed EDA, feature engineering, and implemented XGBoost, Random Forest, and Neural Networks to predict grain moisture levels.
- Ticket Classification (Machine Learning): Developed supervised ML model for classifying support tickets using preprocessing, TF-IDF, and ensemble methods.
- Audio Separator (Python): Built a Python program to separate vocals and instrumental tracks from audio files.
- Plato CRM Tool (Laravel Migration): Migrated legacy YII(1.0) system to Laravel(8), optimized DB for scalability, and implemented sales/lead management features.
- Fish Farm IoT System: Created an IoT dashboard for monitoring pH/temperature and automated alerts for critical thresholds.

Experience

• Pickyourtrail

Back-end Developer (Full-Time)

Jul 2021 - Aug 2024

- Plato CRM Tool: Developed features like Sales Roster to track daily activities and customer interaction, ensuring continuity. Integrated with payment gateways (Razor Pay, Payu).
- **NEO App CRM Tool**: Built backend APIs for Mobile Applications handling lead management, customer tracking, and performance metrics.

• Mobile Tutor Pvt

Full Stack Developer (Intern)

Dec 2020 - Jun 2021

 Library Management System: Developed a complete library system for book tracking and user notifications.

- Automatic Report Generation: Built an automated report generation and communication system.
- Adash Business Analytic

Back-end Developer (Intern)

Jan 2020 - Nov 2020

- **ERP System**: Developed an internal dyeing ERP system handling finance, reporting, and user attendance.

Publications

• Prediction of Adverse Glycemic Events: Used TensorFlow and Python to predict glucose fluctuations.

Honors and Awards

• Best Developer Award: Received for outstanding contributions in software development (Jan 2022).

Volunteer Experience

• National Cadet Corps - KEC

Tamil Nadu, India

 $I\ have\ volunteered\ as\ an\ NCC\ cadet\ and\ participated\ in\ various\ competitions\ and\ community\ services$