Bagathi Dinesh Kumar

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About Me

A passionate Electronics and Communication Engineering graduate with expertise in Full Stack Development, Machine Learning, and Artificial Intelligence. Actively seeking an Entry-Level Full Stack Developer position to immerse myself in a challenging professional setting, grow my technical expertise, and contribute meaningfully to cutting-edge web development initiatives.

Internship Experience

Data Science Intern — Sep 2024 – Apr 2025
Meritshot — *Hyderabad, IN*

- Applied advanced analytics techniques to extract actionable insights, achieving an increase in data-driven decision-making efficiency within the business environment
- Employed statistical models to analyze datasets from Amazon and Cadbury, enabling a 20% improvement in business strategy outcomes
- Led cross-functional teams to establish governance standards for product instrumentation data, enhancing Data Accuracy across all products, thereby optimizing product strategies
- Implemented predictive analytics techniques, resulting in an improvement in strategic decision-making accuracy in a case study on the future of data science

Full Stack Developer — Jun 2023 – Jul 2023
METROLABS SERVICES PVT LIMITED — *Hyderabad, IN*

- Developed and maintained core functionalities of PANTS (Personalized Analysis and Nutrition Tracking System), a self-hosted nutrition tracker, enabling recipe comparison, calorie tracking, and meal optimization
- Integrated nested recipe structures, allowing dynamic nutritional recalculations across meta-recipes like meals and snacks
- Enhanced user experience by enabling recipe cloning with alternative ingredients, improving system's capability for nutritional and cost comparisons
- Technologies: Python, Flask

Projects

Customer Churn Prediction Using Machine Learning and Artificial Neural Network Algorithms — 2024

- Built and validated machine learning models for predicting customer churn and identifying at-risk customers to inform targeted retention strategies
- Compared proposed models with numerous machine learning methods frequently applied in churn prediction studies
- Contrasted model results using essential accuracy classification tools such as precision, recall, sensitivity, specificity, true positive rate, false positive rate, and AUC
- Technologies: Python

E-Commerce Website — Happy Carts — 2023

- Created an innovative E-commerce platform, enhancing user experience and driving online sales growth
- Engineered an innovative E-commerce platform, focusing on intuitive design and robust functionality
- Contributed to significant online sales growth by enhancing user experience and optimizing platform features
- Technologies: HTML, CSS, JavaScript

Technologies

Programming: Python, JavaScript, TypeScript, Java, C++, SQL, HTML/CSS, Shell
AI/ML: TensorFlow, PyTorch, Scikit-learn, LangChain, Hugging Face, OpenAI API, Keras
Web Tech: React, Node.js, Express.js, FastAPI, REST APIs, Vite, Tailwind CSS
Database: MongoDB, PostgreSQL, Redis, Database Design
Cloud/DevOps: GCP, Azure, Docker, Git, CI/CD
Data Science: Pandas, NumPy, Data Visualization, Statistics, Jupyter, Analytics

Education

Aditya Institute of Technology & Management — Aug 2020 – Jun 2024
Bachelor of Technology in Electronics and Communication Engineering — *GPA: 7.27/10.0*

- Coursework: Electronics and Communication Engineering fundamentals, Programming, Signal Processing, Digital Communication

Certifications

AWS Academy Cloud Foundation: Amazon Web Services
PCB Design: APSSDC (2021)