Battu Dhanush

Software Development Engineer | Full-Stack & AI/ML Engineer

dhanushbattu1234@gmail.com | +91 6305262743 | Bengaluru, Karnataka
linkedin.com/in/dhanush-battu-263089301 | github.com/DhanushBattu



PROFESSIONAL SUMMARY

Software Engineer specializing in **full-stack web, cross-platform mobile and machine-learning applications**, with hands-on delivery across Java, Python, JavaScript and Dart. Strong foundation in **data structures, algorithms, OOP and DBMS**, applied to real-world problems such as LLM fact-checking, transaction-safe bookings and workflow automation. Seeking a **Software Development Engineer** role to design, build and ship **reliable, scalable software**.

TECHNICAL SKILLS

Languages	Java, Python, JavaScript, TypeScript, SQL, Dart, PHP, HTML, CSS
Frameworks & Libraries	FastAPI, Flask, React, Flutter, Pandas, NumPy, Scikit-learn, PyTorch, Hugging Face Transformers
Databases & Cloud	MySQL, SQLite, Firebase (Cloud Firestore, Cloud Messaging)
AI & Integrations	Machine Learning, NLP, Generative AI, LLMs, Prompt Engineering, REST APIs, WhatsApp Business API
Developer Tools	Git, GitHub, VS Code
Core CS	Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

EXPERIENCE

Software Developer (Freelance) – Elite IIT Bengaluru
AI Digital Marketing Assistant & Marketing Automation Workflow

- Engineered a Meta-compliant **WhatsApp Business API automation platform** with an integrated bilingual Generative AI assistant for localized content and edtech-style visual generation.
- Automated campaign segmentation and content generation through prompt engineering, driving a **32% increase** in WhatsApp engagement, **70% faster** content creation and **40% higher** marketing efficiency.

PROJECTS

VeriAI: AI Hallucination Verification System GitHub
Python, FastAPI, React, TypeScript, PyTorch, Hugging Face Transformers, Claude API · B.E. major project (team of 4)

- Built a chat app that fact-checks every claim in an AI answer against Wikipedia, Wikidata, Crossref and OpenAlex, flagging wrong claims and catching **fabricated papers and books**.
- Designed the verification pipeline: claim splitting with an NLI faithfulness gate, **BM25 + cross-encoder** evidence retrieval and a quote-verified LLM judge, so no verdict is accepted without a cited source.
- Added self-rechecked corrections, live news with freshness filtering and multi-LLM fallback, backed by **141 automated tests**.

Cross-Platform Rental Marketplace App GitHub
Flutter, Dart, Firebase, Cloud Firestore, FCM

- Architected a marketplace for Web, iOS and Android from a single Flutter/Dart codebase with multilingual support and reliable push notifications (FCM + service workers).
- Resolved concurrency edge cases using atomic database transactions, **eliminating inventory double-booking** and protecting payments.
- Secured the Cloud Firestore backend with custom **role-based access control (RBAC)** rules to protect sensitive KYC data.

IPL Intelligence: Match Analytics & Winner Prediction GitHub
Python, Pandas, NumPy, Scikit-learn, Flask, SQLite, Matplotlib, Seaborn, Git

- Analyzed **1,095 IPL matches** (2008–2024) to surface team, toss and player-performance trends.
- Built a Flask web application with SQLite-backed authentication that serves predictions from **six ML models** (Logistic Regression, Decision Tree, Random Forest, KNN, Gaussian Naive Bayes, Linear Regression).

Cyber Café Management System
PHP, MySQL, JavaScript, HTML, CSS

- Developed a full-stack web application automating session tracking, computer allocation and billing, on a relational MySQL schema with secure authentication and real-time monitoring dashboards.

EDUCATION

Bachelor of Engineering (B.E.) in Artificial Intelligence & Machine Learning 2023 – 2027 (Expected)
BMS Institute of Technology & Management, Bengaluru · CGPA: 8.0

B.Sc. in Mathematics for Data Science 2023 – Present
Indian Institute of Technology Madras (Online)

Intermediate (Science Stream) 2021 – 2023
Sri Abhida (TSBIE), Telangana · Percentage: 92%

CERTIFICATIONS & ACHIEVEMENTS

Certifications: Apna College – Alpha (DSA with Java) · IBM – Intro to Generative AI (MDL-388) · Infosys – Python Fundamentals

Winner, Tech Quiz – Bengaluru Tech Summit – recognized for technical knowledge and problem-solving 12/2023