Mohit Aggarwal

VIT Chennai | AI ML

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Summary

B.TECH in CSE AI & ML | VIT Chennai. Worked as a Software Development Intern at Berger Paints, Jammu, Jammu & Kashmir. Developed a project leveraging AI, ML, and SQL to address specific operational challenges within the company. Worked with real-world datasets to extract insights and optimize workflows. Improved knowledge of database management and query optimization using SQL. Strengthened collaboration and problem-solving abilities through active involvement in team discussions and solution design.

Work Experience

Software Development Intern
AUG 2023 - DEC 2023

BERGER PAINTS

- Worked as a Software Development Intern at Berger Paints, Jammu, Jammu & Kashmir.
- Developed a project leveraging AI, ML, and SQL to address specific operational challenges within the company.
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Projects

SmartCafe 360 – AI-Powered Cafe Management System
JAN 2025 – APR 2025

- Developed a full-stack cafe management system using **Angular** (frontend), **Spring Boot (Java)** (backend), and **MySQL** (database) to manage orders, inventory, and customer data.
- Integrated **Python (FastAPI)** microservice for sales prediction using ML models and **TextBlob** for customer feedback sentiment analysis, enhancing decision-making and service quality.
- Built a gamified loyalty system using **QR code scanning**, secure authentication with **JWT**, and real-time order tracking via **WebSocket**; visualized insights on a **Chart.js**-based admin dashboard.

AI Resistant Human Verification Through Gesture-Based CAPTCHA
AUG 2024 - DEC 2024

- Developed an innovative **gesture-based CAPTCHA** system to address **security vulnerabilities**, enhancing user verification efficiency.
- Developed a **real-time hand gesture recognition** system using **TensorFlow.js** and **React.js**, enhancing user interaction by **98%**.
- Engineered a **user-friendly** alternative to traditional CAPTCHA, addressing **security vulnerabilities** and enhancing user experience.

AI Powered Mental Health Chatbot
DEC 2024 - APRIL 2025

- Developed a chatbot integrating **LLaMA 3** via **Groq API** for real-time, context-aware mental health support.
- Implemented **ChromaDB f**or efficient retrieval of research-backed mental health resources.
- Enhanced user interaction by incorporating facial expression recognition and a standardized **mental health questionnaire** for personalized assistance.

Education

B. TECH in CSE AI & ML, VIT Chennai

Skills

Programming Languages

Python | C++ | Java | SQL

Tools and Frameworks

MYSQL | Excel | PowerPoint | AWS CLOUD | TensorFlow.js | React.js | Angular | SpringBoot

Certifications

- **Tata Cybersecurity Security Analyst Job Simulation on Forage - August 2025**
- **Python 3.4.3 Training and Certification by Spoken Tutorial Project, IIT Bombay – Feb 2022**

Achievements

Marketing Head of **Wakhra Punjab**

- Managed a Team of 45 members
- Help Leading in 3,4 Events
- Helped in increasing the engagement rate by 10 %