

AHASAN HABIB PARVEJ

Location: Kharagpur / Siliguri, West Bengal, India

Phone: +91 82191-19441 Email: habibparvej777@gmail.com

GitHub: github.com/HabibParvej LinkedIn: linkedin.com/in/habibparvej

SUMMARY

MCA graduate with internship experience in Python, Django, and Odoo development. Built and deployed an ERP system for the Indian Army and a Transport Management System using REST APIs, PostgreSQL, Docker, and Redis. Comfortable with backend workflows, database design, and cloud deployment — and can ship working software independently.

EXPERIENCE

Research Intern — IIT Kharagpur

Aug 2026 – Present

- Researching an AI-driven smart forestry system (ForestNetra) for grid-wise monitoring of soil, environmental, and plant health parameters using IoT sensing nodes.
- Integrating ESP32, LoRa communication, and multiple environmental, soil, and plant health sensors for real-time data acquisition.
- Investigating time-series data preprocessing, machine learning, Explainable AI (XAI), and reinforcement learning techniques for predicting plant health and environmental conditions.
- Contributing to an LLM-based decision support system that generates farmer-friendly recommendations through a web/mobile dashboard using sensor and AI outputs.

Odoo Developer Internship — Dorii Software

Jan 2026 – Mar 2026

- Built a Transport Management System using Odoo, Python, PostgreSQL, and Docker.
- Developed **8+ custom modules** (Fleet, Trip, Booking, Delivery, Inventory), reducing manual work by **40%**.
- Designed a multi-instance architecture using Redis and Nginx, supporting **100+ concurrent users**.
- Developed reporting dashboards that improved operational visibility by **35%**.
- Scaled the system for real-time workloads using Agile workflows, improving performance and overall stability.

Python Developer Internship — Indian Army

Aug 2025 – Jan 2026

- Engineered a Django-based ERP platform (SAINIK) with **3 core apps**, **20+ domain models**, and **50+ workflow routes**, serving 3 user tiers across Brigade and Regiment levels.
- Designed role-based access control (RBAC) with JWT authentication for System, Brigade, and Regiment users with dedicated dashboards.
- Implemented workflow automation and inventory tracking with multi-format exports (Excel, PDF, Word, CSV), reducing manual reporting time by an estimated **30%**.
- Built a structured logging system for activity tracking and auditability using Django ORM.
- Deployed the application on Render (Linux/Ubuntu) for testing; prepared for secure intranet deployment.

PROJECTS

AI-Based Resume Analyzer & Job Matching Web Application

2025

- Developed an AI-powered web application using Python, Django REST Framework, and Gemini API.
- Implemented ATS optimization through REST APIs, achieving **80%+ resume parsing accuracy** across **50+ resumes**.
- Designed an intelligent job-fit evaluation system that improved candidate-job matching by **40%**.

Crime Data Analysis and Prediction using Machine Learning

2024

- Processed and analyzed **10,000+ crime records** using Random Forest and Logistic Regression with Scikit-learn.
- Achieved **91% prediction accuracy** through feature engineering and model optimization.
- Built interactive visual dashboards (Matplotlib, Seaborn) highlighting **15+ high-risk zones** and **5 major crime categories**.

SKILLS

Languages: Python, SQL, JavaScript, HTML, CSS
Frameworks: Django, Django REST Framework (DRF), Odoo, Bootstrap
Databases: PostgreSQL, MySQL, SQLite
Tools & Technologies: Git, Docker, Redis, Nginx, REST APIs, VS Code, CI/CD, Linux/Ubuntu, Django ORM, JWT/OAuth
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
AI Tools: ChatGPT, Claude, Gemini, DeepSeek

EDUCATION

Master of Computer Applications (MCA) Siliguri Institute of Technology, Affiliated with MAKAUT	Jul 2024 – Jul 2026
Bachelor of Computer Applications (BCA) University of North Bengal	Aug 2021 – May 2024