

# HIMANSHU PEGU

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[Portfolio](#)

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## PROFESSIONAL SUMMARY

AI-focused engineer and MBA (Data Science & AI) candidate at IIT Mandi with a strong foundation in building LLM-powered systems, AI agents, and backend infrastructures. Experienced in designing multi-agent workflows, tool-calling systems, and intelligent automation pipelines. Skilled in integrating LLMs with APIs, databases, and real-world applications to enable autonomous decision-making and scalable AI solutions.

## INTERNSHIP EXPERIENCE

### AI Automation Intern - Agile Capital Services

May 2025 – July 2025

- Developed a multi-agent AI system to automate marketing campaigns, improving campaign performance by 20% through customer segmentation, campaign planning, and content generation using LLMs.
- Implemented LLM-driven tool calling and workflow orchestration with external APIs, enhancing system efficiency by 36%.
- Designed feedback loops using campaign performance metrics, continuously optimizing strategies and increasing overall effectiveness by 15%.

### Full Stack Developer - Assam Power Generation Corporation Limited

July 2024 – August 2024

- Developed an internal support system to track and resolve operational issues, improving system reliability by 25%.
- Built REST APIs to enable reliable communication between frontend services and backend databases, enhancing response time by 18%.
- Implemented structured issue tracking and prioritization workflows, reducing resolution time by 40%.

## PROJECT EXPERIENCE

### AI Multi-Agent Marketing Campaign Platform (Hackathon Winner) (Python, LLM APIs, REST APIs)

- Shipped a full-stack AI web application managing concurrent campaigns across 5+ audience segments
- Designed scheduling and monitoring dashboards used by non-technical clients - your first experience owning a product surface end-to-end

### GenAI Business Query Copilot (Python, LLM APIs, SQL, React/Node.js)

- Built a natural language -> SQL interface handling 100+ query types with under 2-second average response latency, eliminating the need for analyst involvement in 80% of standard reporting requests
- Integrated LLM APIs with a PostgreSQL-backed database to automate analytics workflows for non-technical stakeholders - directly analogous to product feature work on Cognavi's user-facing tools

### LLM Document Assistant (RAG Architecture) (Python, Vector Databases, API Pipelines)

- Built a semantic document retrieval system achieving 91% retrieval relevance across 500+ page corpora in internal testing
- Designed modular document ingestion pipelines handling multiple formats – directly applicable to content platform development

### Credit Risk Prediction Model - AiHack India 2025 - Aiful Corp (Python, XGBoost)

- Built a natural language interface to convert business questions into SQL queries.
- Integrated LLM APIs with structured databases to automate analytics workflows.
- Improved accessibility of business data by enabling non-technical users to query databases.

## EDUCATION

MBA (Data Science & AI) - IIT Mandi | CGPA: 6/10

2024–2026

B.Tech (CSE) - Central Institute of Technology Kokrajhar | CGPA: 7.66/10

2020–2024

## LEADERSHIP EXPERIENCE

### Media & Branding Coordinator - SOM IIT Mandi

September 2024 - Present

- Lead digital outreach initiatives and data-driven engagement tracking.
- Designed promotional strategies using analytics-based audience insights.

## SKILLS

- AI & Agent Systems:** LLM Applications, AI Agents, Multi-Agent Systems, RAG, Tool Calling & Workflow Orchestration, Prompt Engineering & LLM Integration, XGBoost, Scikit-learn
- Programming & Frameworks:** Python (ML pipelines, automation), JavaScript (Node.js, React, TypeScript), C/C++
- Backend & Systems:** REST APIs, Microservices, System Design & Debugging, CI/CD, Git
- Data & Databases:** SQL (PostgreSQL, MySQL), MongoDB, Query Optimization & Data Modeling, Vector Databases, Semantic Search