

# VAIDIK JAISWAL

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Bhopal, Madhya Pradesh

## EXPERIENCE

### AI Engineer Intern

Sept 2025 – Present

*The StackMentalist, Pune*

- Engineered a multi-agent AI pipeline for automated newsletter generation, orchestrating retrieval and generation agents for topic selection, content synthesis, and personalized delivery - automating 90% of the end-to-end workflow.
- Designed and architected an agentic Project Management Agent (PMA) to autonomously generate project plans from BRDs, unify multi-channel communications, and identify delivery risks using LLM-driven reasoning and orchestration.
- Implemented a Human-in-the-Loop (HITL) workflow integrating human feedback with LLM-driven reasoning to iteratively validate and refine AI-generated outputs, ensuring explainable, controllable, and enterprise-safe decision support.

## TECHNICAL SKILLS

<b>Programming Languages</b>	Python, C++, JavaScript
<b>Full Stack Development</b>	FastAPI, Node.js, Express.js, HTML, CSS, Tailwind CSS
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, Qdrant, Neo4j
<b>AI Engineering</b>	LangChain, LangGraph, LLM Orchestration, RAG, Prompt Engineering, HITL Systems

## EDUCATION

### B.Tech in Computer Science and Engineering

2022 – 2026

*Oriental Institute of Science and Technology, Bhopal*

CGPA: 8.29/10

**Main Coursework:** Data Structures and Algorithms, Object Oriented Programming, Database Management System, Analysis and Design of Algorithms, SQL, Computer Networks

## PROJECTS

**Vizora** AgentSDK, LangGraph, FastAPI, Gemini-Nano Banana, OpenAI GPT-5

[GitHub](#)

- Engineered an AI-powered platform that generates professional YouTube thumbnails with multi-aspect ratio support, reducing manual design effort by 70%.
- Leveraged multi-LLM pipelines by integrating GPT-5 for query rewriting, and Gemini for image generation, with models acting as judges to optimize outputs - allowing creators to design tailored thumbnails in under 30 seconds.

**Cognify** FastAPI, LangChain, OpenAI API, Qdrant

[GitHub](#)

- Engineered an AI-powered learning platform with RAG pipelines to summarize and contextualize study content.
- Integrated LangChain, Qdrant, and OpenAI API to enable semantic search and intelligent note generation.
- Developed a FastAPI-based Python backend for real-time AI model interactions.

**Automated Slide Generation** Python, FastAPI, python-pptx, Hugging Face Transformers

[GitHub](#)

- Built a web application to generate PPTs from PDF/DOC files using semantic matching and hierarchical summarization.
- Implemented python-pptx to dynamically create and structure slides with automated content extraction.
- Enabled interactive slide customization through a FastAPI-based backend and responsive frontend.

## ACHIEVEMENTS AND CERTIFICATIONS

- Finalist among **1.3 lakh+** participants in the **TVS Credit IT Challenge 2025**, showcasing innovation and problem-solving through an AI-driven solution [Certificate](#).
- Secured **1st Runner-up** in Cypher 30 3.0, a 30-day inter-college coding competition, demonstrating problem-solving excellence [Certificate](#).
- Achieved a **Top 1%** rank in NPTEL's Python for Data Science course with a score of 90% [Certificate](#).
- Achieved **2-Star (Max Rating: 1472)** on [CodeChef](#); secured **Global Rank 341** in CodeChef Starters 191.
- Attained **Max Rating: 1069** on [Codeforces](#) and **1438** on [LeetCode](#), showcasing strong problem-solving skills and coding achievements on the [Codolio](#) platform.