

# Manoj Kumar Pradhan

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## Education

**Vellore Institute of Technology, Bhopal**

B.Tech in Computer Science and Engineering

Sep 2022 – Jun 2026 (Expected)

CGPA: 8.55/10

**Relevant Coursework:** Object-Oriented Programming, Database Management Systems, Data Structures and Algorithms, Operating Systems, Computer Networks, Artificial Intelligence, Generative AI, Machine Learning, Cloud Computing, Cloud Security, Mobile Development, Software Testing, System Design

## Skills

**Languages:** C/C++, Java, Python, Kotlin, SQL

**AI & ML:** Generative AI, LLM Integration, TensorFlow

**Automation & Tools:** Selenium, Appium, Docker, GDB Debugger, CI/CD Pipelines, FastAPI, Salesforce Apex, Streamlit, Postman

**Cloud & DevOps:** API Development & Deployment, REST APIs, AWS, Jenkins, GCP, Azure, Redis, Kafka, MongoDB

**Soft Skills:** Teamwork, Cross-functional Collaboration, Agile Workflow

## Work Experience

**Outlier AI, US (Remote)**

Nov 2024 - Current

AI Trainer

- Assisted in training **generative AI** models by creating and answering computer science-related questions.
- Evaluated and ranked **100+** AI-generated code samples weekly for **accuracy, performance**, and adherence to **best practices**.
- Contributed expertise in coding languages like Java and Python to **improve** AI performance.

## Projects

**TalentLens** | [GitHub Link](#)

Apr 2025

Python, RAG, ChromaDB, FastAPI, Streamlit, Web Scraping

- Designed a retrieval-augmented generation (RAG) system that matches job descriptions to SHL assessments using embeddings, reducing HR decision time from **30 minutes to 6 minutes** per role.
- Integrated ChromaDB vector database with Sentence-Transformers (**all-MiniLM-L6-v2**) to create and query assessment embeddings, achieving a great match accuracy against human expert selections.
- Engineered a BeautifulSoup-based crawler that extracts assessment descriptions from SHL's website weekly, automatically updating the knowledge base with new assessments and maintaining data freshness.
- Separated system architecture into a FastAPI backend (deployed on Render) and Streamlit frontend (on Streamlit Cloud), enabling independent scaling that handles **200+** concurrent users with average response times under **20** seconds.

**SubredditorX** | [GitHub Link](#)

Feb 2025

Python, Streamlit, Selenium, Gemini, MongoDB

- Built an automation system using Appium and Selenium WebDriver that simulates human interaction with the Reddit mobile app, completing post creation in under **45 seconds** compared to **3-5** minutes manually.
- Created a configurable MongoDB schema to store interaction patterns, subreddit rules, and post templates, allowing the bot to adhere to posting guidelines across 50+ different subreddits.
- Architected the codebase using the strategy pattern with clear separation between UI (Streamlit), automation logic (Selenium), and content generation (Gemini), reducing new feature implementation time from **2 days to 4 hours**.

**NexAI** | [GitHub Link](#)

Nov 2024

Python, Docker, Streamlit, Cohere API, Web Scraping

- Implemented a multi-agent system with specialized agents (data collector, analyzer, and synthesizer) using Cohere Embed v3 and Command R+ models, improving research comprehensiveness as compared to single-agent approaches.
- Developed custom scrapers for SEC filings, industry reports, and Kaggle datasets using BeautifulSoup and Selenium, creating a structured database of **15,000+** company insights across **8** industries.
- Containerized the application with Docker Compose using separate services for MongoDB, API backend, and Streamlit frontend, reducing deployment time by **2x** and ensuring consistent environment configuration.

## Achievements

- Deloitte Hackspllosion:** My team qualified for round 2 and came in **top 100 team** out of **2500+** teams all over India.
- DSA Progress:** Solved over 200+ problems on Leetcode and GFG.
- Smart India Hackathon:** Qualified the **internal college rounds** of Smart India Hackathon 2024.