

# MANOJ KUMAR REDDY KODURU

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## SUMMARY

- Pursuing Integrated M.Tech in Software Engineering at Vellore Institute of Technology with 8.70/10.0 CGPA
- Specialized in artificial intelligence, machine learning, and system design with strong analytical skills
- Proficient in software development lifecycle with hands-on experience in Agile methodologies
- Proven ability to build AI-driven applications using Java and Python programming languages
- Strong problem-solving expertise with experience in full-stack development and database management

## Education

**Vellore Institute of Technology, Amaravati**

**Dec 2021 – May 2026**

*Integrated M.Tech in Software Engineering | CGPA: 8.70/10.0*

**Narayana Junior College, Vijayawada**

**June 2019 – July 2021**

*Intermediate (MPC Stream) | Marks: 926/1000 (92.6%)*

## Projects

**ApplyMate – AI-Powered Job Discovery Platform** | *Python, Selenium, Streamlit*

**Sep 2025 – Present**

- Developed job aggregation platform scraping and processing listings from multiple boards using Python, Firecrawl API
- Built automated email delivery system with Python SMTP sending personalized daily job recommendations based on AI matching
- Engineered intelligent job matching algorithm using Google Generative AI to analyze and filter opportunities
- Developed web scraping pipeline with error handling and rate limiting for LinkedIn, Indeed, and Naukri
- Designed Streamlit dashboard for configuring job search criteria and notification settings
- Currently developing Selenium browser automation for one-click application submission

**Intelligent Document Query System** | *Python, LangChain, Ollama, Whisper, ChromaDB*

**May 2024 – July 2024**

- Developed AI-powered document retrieval system supporting PDF, PPT, TXT, and audio files for semantic search using RAG architecture
- Architected document processing pipeline using LangChain with RecursiveCharacterTextSplitter achieving **85% retrieval accuracy** on 100+ test queries
- Implemented vector embeddings with Ollama stored in ChromaDB, reducing query response time from **15s to 4s** through optimized chunking
- Engineered multi-query retrieval generating 3-5 query variations per input, improving result relevance by **40%**
- Integrated OpenAI Whisper for speech recognition enabling audio transcription with **95% accuracy**
- Designed prompt engineering templates with context grounding, reducing hallucination rate from 25% to **under 5%**

## Skills

**Programming Languages:** Java, Python, SQL

**Frameworks & Libraries:** LangChain, Streamlit

**Databases:** MySQL, ChromaDB

**AI/ML Tools:** OpenAI API, Google Generative AI, Ollama, Whisper, RAG Systems

**Tools & Platforms:** Git, GitHub, Selenium, Firecrawl API

**Core Competencies:** Data Structures Algorithms (DSA), Object-Oriented Programming (OOP), Agile, SDLC

**Soft Skills:** Communication, Teamwork, Leadership, Adaptability, Problem-Solving, Time Management

## Achievements & Activities

**CodeChef Club Member** | *VIT Amaravati*

**Dec 2021 – Present**

- Active participant in competitive programming club focusing on algorithm optimization and problem-solving