

# Varun Badwaik

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## SUMMARY

Aspiring AI Engineer with hands-on experience in Generative AI, Large Language Models, and RAG systems. Proficient in Python and modern AI frameworks, focused on building scalable, real-world AI solutions.

## EDUCATION

<b>B.Tech – Electronics and Communication Engineering</b>	2022 – 2026
Priyadarshini College of Engineering, Nagpur	CGPA: 6.1
<b>Higher Secondary Education</b>	2021 – 2022
R.S.S.G.K Agrawal High School and Jr. College, Tumsar	76%

## TECHNICAL SKILLS

**AI & Generative AI:** Large Language Models (LLMs), Prompt Engineering, RAG, LangChain, LangGraph, Hugging Face, OpenAI API

**Programming & ML:** Python, Scikit-learn, TensorFlow, Pandas, NumPy

**Backend & Tools:** FastAPI, REST APIs, Docker (Basics), Git, GitHub, Vercel, Render

**Databases & Vector Stores:** MySQL, ChromaDB, ETL Pipelines, Supabase

**Visualization:** Power BI, Streamlit, Tableau, Matplotlib

**Automation:** n8n Workflow Automation

## PROJECTS

**AgentIQ – AI Knowledge Assistant** *Python, FastAPI, LangChain, ChromaDB* [\[Live Demo\]](#)

- Developed a RAG-powered assistant to query multi-format enterprise documents with semantic search.
- Integrated ChromaDB vector database with OpenAI embeddings improving retrieval relevance.
- Built scalable FastAPI backend for document ingestion and conversational querying.
- Designed interactive Streamlit dashboard enabling real-time chat and document upload.

**Active-Scholar AI Research Agent** *Python, LangGraph, LangChain, FastAPI* [\[Live Demo\]](#)

- Designed multi-agent research system to automate academic paper analysis and summarization.
- Implemented agent pipelines to search, analyze, and synthesize scholarly content using LLMs.
- Built custom RAG workflow improving document retrieval efficiency.
- Enabled real-time visualization of agent reasoning for better interpretability.

**HR Attrition Analysis** *Python, Pandas, NumPy, Matplotlib, Seaborn* [\[GitHub\]](#)

- Processed and analyzed IBM HR dataset (1,470 records) using Python and statistical methods.
- Identified key attrition drivers through EDA and feature correlation analysis.
- Built 10+ visualizations to support data-driven HR decision-making.

**Prime Video Dashboard** *Python, Pandas, NumPy, Power BI* [\[GitHub\]](#)

- Performed large-scale data cleaning and exploratory analysis using Pandas and NumPy.
- Developed interactive Power BI dashboards to visualize content distribution trends.
- Generated insights on movies vs TV shows and country-wise availability.

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate – Oracle
- Introduction to Modern AI – Cisco Networking Academy