

MANAV KAUSHAL

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EDUCATION

Jagannath Institute of Management and Science

2022 – 2025

BCA in Data Science (GPA- 7.8)

PROJECTS

Synthex – AI Code Education Platform

GitHub

Tech Stack: FastAPI | Streamlit | Groq Cloud

May 2025

- Built a code simplification assistant using prompt engineering to translate complex Python into layman-friendly explanations.
- Boosted user comprehension by 20% via feedback loops and heuristics.
- Deployed backend on FastAPI and Streamlit UI via Groq Cloud infrastructure.

Cover Letter & Resume Generator

GitHub

Tech Stack: Python | Streamlit | spaCy | PyPDF2 | docx2txt

June 2025

- Developed an NLP-based tool to score resumes against job descriptions and generate tailored cover letters.
- Extracted entities and matched keywords using spaCy and custom relevance scoring logic.
- Enabled one-click export in PDF/DOCX format via intuitive UI.

APS Predictive Maintenance System

GitHub

Tech Stack: Python | Scikit-learn | Pandas | Seaborn

Nov 2024 – Dec 2024

- Designed a predictive system for vehicle air pressure failures, achieving 95% accuracy using XGBoost Model in early fault detection.
- Applied advanced EDA and feature selection on sensor telemetry data.
- Built ML classification models and optimized them for real-world deployment.

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript, R, C
- **Frameworks & Libraries:** Django, Flask, FastAPI, TensorFlow, PyTorch, Streamlit, Scikit-learn, SQLAlchemy, NLTK
- **Cloud & Deployment:** AWS (EC2, S3, Lambda, RDS), GCP, Railway, Render, Vercel, Docker
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, SQLite, Firebase
- **Dev Tools:** Git, GitHub Actions, Jupyter, VS Code, Google Colab, Postman, Power BI, MS Office Suite

CERTIFICATIONS & LEARNING

RAG & LLM Fundamentals

NVIDIA Deep Learning Institute

July 2025

Introduction to Generative AI

Google Cloud Skills Boost

Apr 2025

Complete ML, NLP & Deployment Specialization

Udemy

Dec 2024

EXTRACURRICULAR & INTERESTS

- Participated in 10+ hackathons — finalist and winner in multiple AI/ML challenges.
- Contributed to open-source projects on GitHub in NLP and backend tooling.
- F1 enthusiast - Currently building an F1 Strategy AI using RAG + LangChain to simulate real race decisions.