

ADHYAN KUMAR

adhyank7@gmail.com | +91-9897962322 | linkedin.com/in/adhyankumar27 | github.com/Adhyan20

EDUCATION

Graphic Era Deemed to be University, B.Tech in Computer Science

Sept 2021 – June 2025

- CGPA: 7.43/10.0

12th, ISC

2021

- Percentage: 80%

10th, ICSE

2019

- Percentage: 81.5%

COURSEWORK / SKILLS

- | | | | |
|--------------------------------|----------------------|----------------------|------------------------|
| • Data Structures & Algorithms | • Deep Learning | • Visualization & BI | • Generative AI & LLMs |
| • Data Structures | • Maths & Statistics | • Big Data & Cloud | • Machine Learning |

EXPERIENCE

Programmer Analyst Intern , Cognizant – Chennai

May 2025 – Present

- Currently interning as a **Programmer Analyst** at **Cognizant**, gaining hands-on experience in **data engineering**, **cloud technologies**, and **SQL**. Contributing to **scalable backend development** in **agile teams** with exposure to **CI/CD pipelines**, **Git**, **RESTful APIs**, and **modern SDLC practices**. Building a strong foundation in **data pipeline automation**, **Docker**, and **cloud infrastructure** using **.NET Core** and **Angular**.

Data Science Intern, NovaNectar – Dehradun

April 2025 – June 2025

- Built a **meeting intelligence platform** and **domain-aware ATS** using **Whisper** and **Gemini 2.0** for **real-time transcription**, **summarization**, and **resume scoring**. Developed **Streamlit dashboards** with **KPI extraction**, **speaker analytics**, and **automated PDF reporting**. Created an **air pollution analysis tool** using **Generative AI**, **geolocation**, and **live APIs**, featuring **heatmaps**, **anomaly detection**, and **automated insights**. All projects leveraged **cloud infrastructure**, **data pipelines**, and **workflow automation** for **real-time decision support**.

Data Science Intern, CodeClause – Virtual

March 2025 – April 2025

- Gained practical expertise in **end-to-end data science workflows**, applying **Python**, **TensorFlow**, and **Scikit-learn** to perform advanced data analysis, build robust machine learning models, and drive data-driven decision-making.

PROJECTS

SelfOS X+ AI-First Cognitive OS | React, Tailwind, Framer Motion, PostgreSQL, Python, LLM

June 2025

- Built a futuristic, full-stack personal OS merging **AI-powered journaling**, **real-time emotion analytics**, and **voice-assisted logging** within a **hyper-responsive, animated UI** (React, Tailwind, Framer Motion). Integrated **PostgreSQL-backed semantic storage** and **Python-based LLM services** to deliver **intelligent self-reflection** and **mood-driven insights**. Designed for **<200ms latency**, **modular scalability**, and an **agent-ready architecture** — reimagining how humans interface with thought, emotion, and memory.

RAG Pipeline with Agentic Router | FastAPI, BM25, FAISS, TF-IDF, LangChain

September 2024

- Engineered a high-performance hybrid retrieval pipeline combining **BM25**, **FAISS**, and **TF-IDF** to boost **answer relevance by 35%** in domain-specific **physics Q&A**. Deployed as a **FastAPI microservice** handling **50+ RPM** with **sub-500ms latency**, integrated with **Sarvam TTS (90% naturalness)** for voice output. Designed an **intelligent agentic router** enabling **dynamic orchestration** between **human assistance**, **Retrieval-Augmented Generation (RAG)**, and **Wolfram Alpha**.

Upscaling Videos Using ESRGAN | Machine Learning, GANs, OpenCV

May 2024

- Built a **4× super-resolution pipeline** using **ESRGAN**, achieving a **+8dB PSNR boost** and **40% noise reduction** over bicubic interpolation. Delivered **50+ FPS real-time restoration** of archival media on **NVIDIA T4 GPUs** with **GPU-optimized denoising and sharpening**, enabling scalable media enhancement workflows.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, SQL, HTML, CSS

Developer Tools: VS Code, MS-Excel, Sublime Text, Kaggle, Google Collab, Jupyter Notebook, AWS, Power BI, Tableau

Technologies/Frameworks: Linux, ReactJS, TensorFlow, Keras, Git, Mongo, Hadoop, PyTorch, Pyspark

CERTIFICATIONS

- | | | |
|-------------------------|-----------------------------------|-------------------------------------|
| • Google Data Analytics | • Meta Data Analyst | • AWS Cloud Practitioner |
| • Microsoft Power BI | • Qualified Round One Young Turks | • Microsoft Gen AI for Data Science |