Aditya Giri

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Bachelor's Of Technology
Material Science and Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (MT)	Indian Institute of Technology,Jodhpur	8.09	2022-Present
Senior Secondary	CBSE Board	94.8%	2021
Secondary	ICSE Board	96.2%	2019

PROJECTS

- **Real-time Data Processing for Scalable Applications**   *Java, Python, SQL*
  Dr. Sucheta Chakraborty | GitHub Link   Feb. 2024
  – Designed and implemented a **real-time data processing** project using **distributed streaming systems**, simulating and processing large datasets with Java and Python.
  – Employed **Apache Kafka** for ingestion and **Apache Flink** for stream processing, enabling real-time analytics, and encapsulated all components into **Docker containers**.
  – Integrated **PostgreSQL** for reliable data storage and retrieval, ensuring consistency and accessibility.

- **Smartphone based Human Activity Recognition**   *Python*
  Dr. Avinash Verma | GitHub Link   Jun. 2023
  – Analyzed smartphone sensor dataset and performed **EDA**, including **PCA** and **LDA**, to understand activity patterns.
  – Trained models such as **ARMA**, **ARIMA**, **KNN**, **Decision Trees**, **Random Forests**, and **SVMs**.
  – Achieved **95.16% accuracy** using **Linear Kernel SVM**.

- **SMS Spam Classifier**   *Python, Machine Learning, NLP*
  Self-Learning Project | GitHub | Live App   Jan. 2025
  – Built an end-to-end **NLP-based spam classification system** using **Multinomial Naive Bayes**, achieving **precision = 1.00**.
  – Applied **NLTK-based text normalization** (tokenization, stopword removal, stemming) to reduce noise in unstructured messages.
  – Engineered **TF-IDF features** for high-dimensional text data and selected the model based on **precision-driven evaluation**.
  – Developed and deployed a **Streamlit web application** for real-time spam prediction on **Streamlit Cloud**.

- **Movie Recommendation System**   *Python, Pandas, NumPy, scikit-learn, NLP, Streamlit*
  Self-Initiated | GitHub | Live Demo   Nov. 2024
  – Built an **end-to-end content-based movie recommendation system** that suggests similar movies based on user-selected titles.
  – Engineered a unified feature space by combining **genres, keywords, cast, crew, and overview** using NLP techniques.
  – Applied **TF–IDF vectorization** and **cosine similarity** to compute movie-to-movie similarity and generate Top-N recommendations.
  – Deployed the model as an **interactive web application using Streamlit**, enabling real-time recommendations via a user-friendly interface.

KEY COURSES TAKEN

- Data Structure,Algorithms, Intro to Computer Science, Intro to Machine Learning, Scientific Computation, Linear Algebra and Calculus, Phase Transformations, Materials Characterization

TECHNICAL SKILLS

- **Programming:** C/C++, Python, Java, SQL
- **Tools & OS:** Git, Jupyter Notebook, Google Colab, MS Excel, Windows, Solid Works, Canva, Origin,PowerBI
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn,nltk
- **Web Skills:** HTML/CSS

POSITIONS OF RESPONSIBILITY

- **Secretary,** Materials Department, IIT Jodhpur   *Jun. 2023 - May. 2024*
- **Team Member,** E-cell club, Society of Alumni Affairs   *Jan. 2023 - Nov. 2023*

ACHIEVEMENTS

- **Secured 3rd Position** Inter Hostel Sports Event.   *2024*
- **Rank 20133** in Joint Entrance Examination(Adv)   *2022*
- **Rank 22610** in Joint Entrance Examination(Mains)   *2022*