Naman Sharma

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B.Tech - Civil Engineering
Minor in Mathematics and Computing
Indian Institute Of Technology, Guwahati

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.91 (Current)	2022-Present
Senior Secondary	CBSE Board	95.2%	2022
Secondary	CBSE Board	96.5%	2020

Projects

- **Customer Churn Prediction (Data and AI Project)** *Jun 2024 -Jul 2024*
  Self Project GitHub
  – Built a **Customer Churn Prediction model** using **Logistic Regression**, **Decision Trees**, **Random Forest**, and **Artificial Neural Networks**, achieving **84% accuracy** through optimized feature engineering and model evaluation.
  – Designed **data pipelines** with **SMOTE**, **Min-Max Scaling**, and **One-Hot Encoding** for improved model performance.
  – Leveraged Python libraries (**NumPy**, **pandas**, **scikit-learn**, **TensorFlow**, **Keras**) to analyze customer demographics and service usage patterns.

- **LSTM Stock Predictor (Data Engineering and ML)** *Apr 2024*
  Self Project GitHub
  – Developed an **LSTM-based stock predictor** to analyze Microsoft (MSFT) stock trends.
  – Implemented **time-series forecasting** and optimized model performance using **sequential data preprocessing**.
  – Utilized **Python**, **TensorFlow**, **NumPy**, **Pandas**, and **Matplotlib** to visualize predictions.

- **Movie Recommendation System (ML and Data Processing)** *Aug 2024*
  Self Project GitHub
  – Developed a **Collaborative Filtering-based Recommendation System** using **matrix factorization** and **similarity-based techniques**.
  – Processed and analyzed the **MovieLens 20M dataset** using data manipulation libraries (**Pandas**, **NumPy**, and **Scikit-learn**), creating a scalable **User-Item interaction matrix** for personalized movie recommendations.

- **Compiler (Systems Programming)** *Feb 2024*
  Self Project GitHub
  – Developed a **C-based compiler** using **x86 assembly**, capable of transforming high-level code into low level assembly instructions. It supports **arithmetic/logical operations**, **loops**, and **conditionals**.
  – Implemented a **Lexer** for tokenization, a **Parser** for constructing parse trees, and a **Code Generator** to translate parse trees into assembly code.

Technical Skills

- **Programming**: Python, C/C++
- **Data Engineering & ML**: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Data Preprocessing
- **Databases & Backend Technologies**: MongoDB, PostgreSQL, REST APIs, Express.js, Node.js
- **DevOps & Cloud**: CI/CD Pipelines, Docker*, Cloud Platforms (AWS/GCP)*
- **Tools & Libraries**: Matplotlib, Seaborn, YFinance*, Power BI* ** Elementary proficiency*

Key courses taken

- **Computer Science**: Data Structures and Algorithms, Introduction to Computing, Computational Laboratory
- **Mathematics**: Linear Algebra, Basic Calculus, Differential Equations, Probability & Random Processes, Mathematical Statistics, Scientific Computing(Theory + Lab)
- **Economics**: Macroeconomics, International Economics

Achievements and Extracurriculars

- **JEE Advanced 2022**, Secured **All India Rank 7440** among **0.16 million** candidates appearing for the test *2022*
- **JEE Mains 2022**, Ranked within the **top 2%** of **0.9 million** candidates *2022*
- **Spardha**, Secured 4th position in inter-hostel sports competition in Lawn Tennis *2024*
- **JPMorgan Chase & Co. Quantitative Research Virtual Experience Program**, on Forage *2024*

Positions of Responsibility

- **Events Core Team**, TEDxIITGuwahati *May 2024 - Ongoing*
  – Led the planning and execution of multiple large-scale events, overseeing logistics, coordination, and successful management, leading to a significant increase in community engagement and participation.