



**Naman Sharma**  
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B.Tech - Civil Engineering  
Minor in Mathematics and Computing  
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EDUCATION

| Degree/Certificate | Institute/Board                          | CGPA/Percentage | Year         |
|--------------------|--|-----------------|--------------|
| B.Tech. Major      | Indian Institute of Technology, Guwahati | 8.11 (Current)  | 2022-Present |
| Senior Secondary   | CBSE Board                               | 95.2%           | 2022         |
| Secondary          | CBSE Board                               | 96.5%           | 2020         |

PROJECTS

- **Customer Churn Prediction (Data and AI Project)**

Self Project

Jun 2024 - Jul 2024

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)**

Self Project

Apr 2024

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)**

Self Project

Aug 2024

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)**

Self Project

Feb 2024

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

• **JEE Mains 2022**, Ranked within the **top 2%** of **0.9 million** candidates

• **Spardha**, Secured 4th position in inter-hostel sports competition in Lawn Tennis

• **JPMorgan Chase & Co. Quantitative Research Virtual Experience Program**, on Forage

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.