Ravi Kumar Saini

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B.Tech - Electronics and Communication Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.57 (Current)	2021-Present
Senior Secondary	CBSE Board	93.0%	2020
Secondary	CBSE Board	88.8%	2018

PROJECTS

- **Loan Application Predictor** — *April. 2024*
  Personal Project — GitHub
  - Conducted comprehensive **Exploratory Data Analysis** on loan data, identifying key features such as **Credit History** and **Balance Income** to understand customer behavior.
  - Implemented advanced techniques like **missing value imputation**, **preprocessing**, and machine learning models (**Linear Regression**, **Decision Tree**, **Random Forest**) to achieve **75 percent average accuracy** in automating loan eligibility assessment and detecting defaulters.

- **Uber Data Analysis** — *May 2024*
  Personal Project — GitHub
  - **Conducted** comprehensive **data pre-processing** and **cleansing** on a **vast dataset** comprising **over 31 million entries**.
  - Utilized **Time Series Analysis** to identify demand patterns within the **Uber Pickups** in **NYC** dataset, revealing insights such as **hourly**, **weekly**, and **monthly** ride demand fluctuations. Generated visualizations illustrating Uber's **ridership growth** and estimated NYC **market value**, with total **revenue** reaching **$595 million USD** within a year. This marked an **84% growth** in **New York State**, resulting in a **Gross Margin** of **$149 million USD**.

- **Sorting Visualiser** — *Jan 2023*
  Personal Project — Website | GitHub
  - Implemented sorting algorithms including **Selection Sort**, **Insertion Sort**, **Bubble Sort**, and **Merge Sort** in JavaScript, enabling users to visualize sorting processes.
  - Employed `setTimeout` function to showcase **partitions** and **element swaps**, demonstrating proficiency in algorithmic implementation and user interface development.

TECHNICAL SKILLS

- **Programming**: C, C++, Python
- **Web Technologies**: HTML, CSS, JavaScript, Bootstrap, React.js, Node.js
- **Electronics**: MATLAB, Arduino
- **Databases**: MongoDB, SQL

KEY COURSES TAKEN

- **Computer Science**: Introduction to Computing (Theory and Lab), Computer Networks
- **Electrical and Electronics**: Blockchain Science and Technology, Machine Learning
- **Mathematics**: Linear Algebra, Basic Calculus
- **Online Course (Udemy)**: Mastering Data Structures and Algorithms using C and C++ |Certificate of completion
- **Online Course (Udemy)**: The Complete 2023 Web Development Bootcamp |Certificate of completion

ACHIEVEMENTS

- **JEE Advanced 2021**: Secured All India Rank 4278 among 0.15 million candidates.
- **JEE Main 2021**: Scored 99.62 Percentile among 0.94 million candidates who appeared.
- **Competitive Programming**: Achieved a rating of 1378 on Codeforces.

POSITIONS OF RESPONSIBILITY

- **Manager**, Udgam'22, The Annual Entrepreneurship Summit of IIT Guwahati — *Oct 2022 - Feb 2023*
  - Member of Internfair Module of Udgam, managed a team of 20 freshers and coordinated with more than 60+ startups to conduct the largest Internfair of North-east.

- **Senior Executive**, E-cell, IIT Guwahati — *Jan 2022 - April 2023*
  - As part of the startops module, conducted startup hive where we gathered 30+ startup founders from college and organise various events to promote entrepreneurship in our college.