



Suhani Kalra

Roll No.:210104108

Civil Engineering

Minor in Electronics and Communication Engineering

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Github

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	7.52 (Current)	2021-Present
Senior Secondary	CBSE Board	92.2%	2020
Secondary	CBSE Board	96.17%	2018

PROJECTS

- **VidComm - Real-Time Video Communication System** June - July 2023
Self, Based on Coding Club, IIT Guwahati Github
 - Developed a **real-time video conferencing application** using **WebRTC** and **Node.js**, enabling users to engage in seamless virtual meetings and collaborative sessions.
 - Implemented advanced collaboration features, including **fluid screen sharing**, **interactive chat**, and **collaborative whiteboarding**, enhancing user interaction and productivity.
 - Utilized **HTML**, **SCSS**, **JavaScript**, **Node.js**, **Express.js**, and **Socket.IO** to build and deploy the application with a focus on user experience and real-time communication.
- **Customer Segmentation for Marketing Strategy, Clustering** March - April 2024
Self Github
 - Performed dimensionality reduction using **Principal Component Analysis (PCA)** to reduce high-dimensional data while preserving variance.
 - Applied **KMeans++ clustering** to segment customers based on behavior and preferences, enhancing targeted marketing strategies.
 - Profiled clusters to derive actionable insights, enabling personalized marketing efforts and improving campaign effectiveness.
- **Making Efficient Real Estate Investment, Decision Model** Jan - Feb 2023
Silver Medal, Inter IIT Tech Meet 11.0, IIT Kanpur Report
 - Developed a decision model for automating property investment decisions, earning a **Silver Medal** for the decision model.
 - Designed **ensembles of decision trees** for feature evaluation and assigned weights based on comprehensive analysis and consultation.
 - Utilized risk factors, confidence intervals, and return on investment (ROI) to score and assess property investments.
 - Created a decision flow diagram to enhance stakeholder interaction and streamline decision-making processes.
- **Blog Platform - Secure and Scalable Blogging System** March - April 2023
Self Github
 - Developed a fully functional blogging platform using the **MERN** stack, incorporating authentication via **Firebase** and **MongoDB** for secure and scalable data storage.
 - Integrated **JWT** for secure user authentication, with state management handled by **Redux Toolkit** to ensure smooth and efficient data flow.
 - Enhanced the user experience with robust features, including user authentication, content management.

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, JavaScript
- **Web Development:** HTML, CSS, MERN Stack (MongoDB, Express.js, React.js, Node.js)
- **Machine Learning/Deep Learning:** TensorFlow, Keras, PyTorch*, Scikit-learn, Pyspark*, Pandas, Numpy

* Elementary proficiency

KEY COURSES

- **Mathematics and Computing:** Linear Algebra, Basic Calculus, Mathematical Economics, Computing Laboratory, Introduction to Computing, Recommendation System Design using Deep Learning* * Ongoing

POSITIONS OF RESPONSIBILITY

- **Organizer** TedX, IIT Guwahati Jan 2022 - Jan 2023 Coordinated event logistics, managed speaker arrangements, and ensured smooth execution of the event.
- **Product Executive** IIT Guwahati Entrepreneurship Cell Feb 2022 - Feb 2023 Develop the wireframes, prototyped the Researchin Platform. Played a key role in promoting startup culture among 7000+ students. Conducted Produescope with 1500+ registrations, also Product Matters Workshop with 2000+ registrations.
- **North East Entrepreneurship Drive Executive** IIT Guwahati, Entrepreneurship Cell Feb 2022 - Feb 2023 Worked with 50+ colleges to promote startup culture on their campus, and develop Entrepreneurship Cells in the Northeast. Also successfully conducted the North East Entrepreneurship Expo with the participation of 40+ startups of the region.
- **Contingent Member** Inter IIT Tech Meet Team Jan 2023 - Mar 2023 Collaborated with team members to develop the decision Model for the Real Estate domain, using ensembles of weighted decision Trees.

EXTRACURRICULARS/CERTIFICATIONS

- **Winter Consulting:** Consulting and Analytics Club, IIT Guwahati, Successfully completed the 5-week Consulting Workshop to work on the project on the Future of Air India after TATA Acquisition being in the top 5% of the project.
- **Summer Analytics:** Consulting and Analytics Club, IIT Guwahati, Learned Machine Learning and Analytics during the 6-week long course.
- **Product Matters:** Entrepreneurship Cell, IIT Guwahati, Learned the basics of Product Management during the cohort.
- **Machine Learning Specialisation:** Coursera, Learnt the ML skills through the 3 course specialisation.

ACHIEVEMENTS

- **Amazon Machine Learning Summer School:** Selected for 4-week program, mastering core Machine Learning and Deep Learning.
- **2nd Place at Inter IIT 11.0:** Secured 2nd place for the 'Retail Real Estate Decision Model' at Inter IIT 11.0, IIT Kanpur.
- **Joint Entrance Examination Mains 2021** Secured Rank in Top 2% among 0.97 million candidates