Abhinav Gundumalla

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B.Tech - Chemical Science and Technology
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.36 (Current)	2022-Present
Senior Secondary	CBSE Board	92.8%	2022
Secondary	CBSE Board	96.4%	2020

PROJECTS

- **Zcoder-Coding Platform** — *May 2024 - June 2024*
  Team Project, Coding Club IITG- Coding Platform Website — Github
  – Developed a coding platform enabling users to ask and answer programming-related questions efficiently.
  – Designed and implemented the frontend using **HTML**, **CSS** and **ReactJS** for a responsive, user-friendly interface.
  – Ensured efficient data management with **ExpressJS, NodeJS** and **MongoDB**, laying a solid operational foundation.
  – Implemented **CORS** and integrated **Axios** for seamless API communication in the website.

- **Movie Review Sentiment Analysis** — *May 2024 - June. 2024*
  Personal Project-Predicting Sentiment of Movie Reviews — Github
  – Employed **TensorFlow** and **Keras** to build an **LSTM**-based sentiment analysis model for IMDb reviews.
  – Preprocessed text data using **Tokenizer** and **pad_sequences** functions for efficient model input.
  – Developed an interactive web interface to showcase sentiment analysis results using **streamlit**, offering users the ability to input movie reviews and receive real-time sentiment prediction.

- **Spam Mail Detection** — *Jan 2024 - Feb. 2024*
  Personal Project-Predicting Spam or Ham mails — Github
  – Developed a machine learning model using **Logistic Regression** to accurately predict spam emails
  – implemented data **preprocessing** and model evaluation techniques for improved performance.
  – Integrated **feature selection** methods to enhance logistic regression model performance in predicting spam emails.

- **Rapid Transit Metro App** — *Jan 2024 - Feb. 2024*
  Personal Project-Navigation Helper — Github
  – Developed a **C++** metro station network manager with graph data structures for efficient data organization.
  – Implemented **Dijkstra's** and **Prim's** algorithms using **hashset**, **queues** and **vectors** for optimal route planning and network connectivity.
  – Created an intuitive user interface for easy navigation and real-time route optimization based on **cost** and **distance.**

TECHNICAL SKILLS

- **Programming**: C/C++, *Python
- **Web Technology**: HTML, CSS, ReactJS, *NodeJS, *MongoDB, *JavaScript, *WebSockets
- **Python Tools**: Mathplotlib, Numpy, Pandas, Scikit Learn
- **ML Frameworks**: TensorFlow, Keras, *PyTorch, *Lang-chain
- **Miscellaneous**: Streamlit, MS PowerPoint, MS Word, *MS Excel   *Elementary proficiency*

KEY COURSES TAKEN

- **Mathematics**: Real Analysis, Linear Algebra, Basic Calculus, Differential Equations, Complex Analysis
- **Finance**: Fundamental Analysis Bootcamp, Blockchain Web 3.0 Fundamentals.
- **Computer Science**: Introduction to Computing, Computing Labaratory.

POSITIONS OF RESPONSIBILITY

- **Welfare Secretary**, Brahmaputra Hostel, IIT Guwahati — *May 2024 - Present*
  -Oversaw the welfare of **1200+** Hostel Boarders.ensuring a supportive living environment and addressing concerns.
- **Joint Welfare Secretary**, Brahmaputra Hostel, IIT Guwahati — *May 2023 - May. 2024*

ACHIEVEMENTS

- **Joint Entrance Examination ADVANCED 2022**: Secured All India Rank **7409** among **0.2 million** candidates.
- **Joint Entrance Examination MAINS 2022**: Amongst the **top 1.6 percent** among 1 million candidates.
- **WorldQuant**: Amongst the top **20 percent** teams that participated in stage 1 of **International Quant Championship** by WorldQuant Brain, 2023.
- **Coding Platforms**: Solved **550+** problems across various coding platforms like **Codeforces**, **LeetCode**, etc.
- **Codeforces**: Rated **Pupil** with **Max. Rating 1294** with over 400+ problems solved.