Amitesh Rana

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Chemical Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CHE)	Indian Institute of Technology, Jodhpur	6.99	2021-2025
Senior Secondary	CBSE Board	87.4%	2019
Secondary	CBSE Board	83.6%	2017

EXPERIENCE

WEYA.AI | ML Research Intern   June 2024 - July 2024 | Remote

– Contributed to end-to-end pipeline development for energy disaggregation, from data collection to model deployment.
– Worked on training CNN models and implemented generative models to achieve state-of-the-art accuracy for NILM tasks.
– Collaborated with the team on product design and execution for clients in Brazil.

PROJECTS

- **ALGOSORT - OPTIMAL ALGORITHM SORTING DISPLAY** | GitHub Repo
  Apr 2023 - May 2023

  – Utilised the **SFML** (Simple and Fast Multimedia Library) for sophisticated sorting algorithm visualizations.
  – Used the SFML library to render bars of varying heights on a window, representing unsorted arrays.
  – Implemented highly optimized and modular sorting algorithm framework

- **SPEECH EMOTION RECOGNITION** | GitHub Repo
  Jan. 2023 - Feb. 2023
  – Carried out the task of speech emotion recognition from the RAVDESS Dataset using Python
  – Performed classification using various algorithms like Multi-Layer Perceptron (using different activation functions), Random Forest Classifier, **Support Vector Machine**, 1D and 2D **Convolutional Neural Networks**.
  – Achieved the highest accuracy of **92.21**

- **FAKE NEWS DETECTION** | GitHub Repo
  Mar 2024 - Apr. 2024
  – Designed and implemented a robust fake news detection project using machine learning algorithms, including decision trees, linear regression, and gradient boosting classifier.
  – Achieved an outstanding accuracy of **98.35** in distinguishing between genuine and fake news.
  – Trained the model by utilizing large-scale datasets containing 25,000 entries for true and fake news articles.

- **Go-Chat** | Chat App | GitHub Repo
  Jan 2024 - Mar. 2024
  – Secure Authentication: Integrated Supabase Auth for email/password and phone OTP login.
  – Real-Time Chat: Utilized WebSockets for instant messaging and updates.
  – Intuitive UI: Designed user-friendly interfaces for login, chat room list, and messaging.

TECHNICAL SKILLS

–**Coding / Programming:** C, C++, Python, SQL , GO, Solidity, JavaScript, Shell Script / Bash Script
–**Tools & OS:** Git, AWS, MySQL, Jupyter Notebook, Google Colab, JIRA, Excel, Linux/Ubuntu, MacOS
–**Libraries/Frameworks:** Pandas, Numpy, SciKit-learn, PyTorch, Tensorflow, OpenCV , dlib, JQuery
–**Web Skills:** HTML, CSS, JavaScript, TypeScript, NextJS, ReactJS, Figma, Django, Flutter, Kotlin, Switch
–**Other Skills:** Finance, Accounting, Management ,UI / UX, Kubernetes, Cloud Computing

ACHIEVEMENTS

–Ranked 14th out of 4000+ users on **GeeksforGeeks** from college, based on overall coding score.

–Achieved **Master Badge** in Recursion, Dynamic Programming on Coding Ninjas, awarded to only the **Top 0.01** percent of users.

–Successfully reached Flipkart Grid 5.0 and 6.0 Round 2 consecutively

–Reached the Final Coding Ninjas "Ninja Dominator" League.