# Amitesh Rana

Roll No.:B21CH039
Chemical Engineering
Minor in Management
Indian Institute Of Technology, Jodhpur

+91-9935968830
marshmellofanamitesh@gmail.com
rana.3@iitj.ac.in
Github | Website
linkedin.com/in/amitesh-rana11/

## 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

- **FACIAL RECOGNITION USING dlib** | GitHub Repo
  *Aug 2024 - Oct 2024*

  – Developed a facial recognition system using the **dlib** library for accurate face detection.
  – Implemented efficient recognition by comparing faces with a database using single-image data.
  – Utilized pre-trained models from dlib for rapid deployment and high accuracy in facial recognition tasks.

- **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.