

# Ramsha Anwar

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## SKILLS SUMMARY

- **Programming Languages:** Python, C/C++, Java, HTML/CSS, JavaScript, Elixir
- **Frameworks and Libraries:** SUMO, Node/Express JS, NumPy, Pandas, Shap, Librosa, React JS, Pygame
- **Platforms and Tools:** Web, Windows, Linux, GIT, MySQL, Orange, Streamlit
- **Soft Skills:** Writing, Communication Skills, Leadership, Time Management

## EDUCATION

- **Jamia Millia Islamia** New Delhi, India  
*Bachelor of Technology (Computer Science) SGPA: 9.22* November 2021 - Present
- **Birla Vidya Niketan** New Delhi  
*CBSE Board - Class XII (PCM with Economics) 94.6%* 2021

## EXPERIENCE

- **Google India** Bengaluru, India  
*Software Engineering Intern* June 2024 - August 2024  
*Worked on enhancements to Google Cloud Jump Start Solutions for a more advanced learner experience for the users. Planned and designed user experience flows, learnt to write production-ready code, unit tests and working with large code bases and tech stacks. Tech: Java, Angular framework, Golang*
- **NSE TalentSprint** Hyderabad, India  
*Software Engineering Intern* June 2023 - July 2023  
*Collaborated with a mentor to train classical Machine Learning models using the Orange data mining platform and deployed the trained models. Worked on GUI development using PyQt to create a custom Orange widget. Developed comprehensive documentation, including videos, to explain the codebase and Orange workflows.*

## RESEARCH EXPERIENCE

- **Investigating the security and privacy aspects of mHealth applications:** Leading a research project on healthcare security at the BeyondDefense Lab under the guidance of (Dr. Afsah Anwar) and (Dr Sazzadur Rahman).
- **Deep Learning Based Classification of Acoustic Signals:** Presented the research paper on using deep learning algorithms to find deep audio embedding underwater, at ICMLDE 2023 conference (paper to be published in next issue) (November 2023).

## PROJECTS

- **Titanic Survival Prediction** 📊: Trained a Random Forest model using Orange to give an 80% accuracy on the Titanic data set. Designed and implemented an input interface in Streamlit to allow users to provide input to the trained Orange model for generating predictions. Integrated the SHAP (SHapley Additive exPlanations) library into the Streamlit app to analyze and interpret the predictions generated by the model. Tech: Orange (GUI and data mining library), Streamlit, SkLearn, SHAP (June 2023)
- **Self-Organised Traffic Control System** 📊: Implemented an algorithm to organise traffic in high-density cities using an open-source traffic simulator, SUMO. Implemented the algorithm using the TraCi library. Worked in a team remotely. Tech: XML, TraCI(Python Library) & SUMO (Oct 2022 - March 2023)
- **Paisa Planner (Budgeting App)** 📊: Built an app to manage finances for college students through an interface for budget planning and investment features including stock prediction. Built the stock predictor using an LSTM architecture. Tech: Dart, Python, Flutter, Flask, Matplotlib, SkLearn (February 2023)
- **Connect Jamia** 📊: Developed a full-stack social media website for my university's student community. Worked in a team of six. Tech: Node/Express JS, React JS, MySQL, CSS (January - April 2023)

## ACHIEVEMENTS

- **Women Engineers Scholar:** Qualified a 4-tier selection round to get a 100% cash scholarship, from Google, for the 2-year program conducted by TalentSprint.
- **Scholar:** Received scholarship by Jamia Millia Islamia for being amongst the top 5 highest performing students in my branch for the 2022 academic year.
- **HackJMI'23 Hackathon Finalist:** Qualified to be amongst the top 10 teams from more than 100 applicants. Worked in a team to build the project within 48 hours.
- **CBSE Certificate of Merit:** Awarded certificate of merit by CBSE for being among the top 0.1% of successful candidates in mathematics class 10 board examination.

## VOLUNTARY EXPERIENCE

- **Core Member of Finance Vertical, GAEE JMI:** Worked on numerous articles analysing financial markets(Link to publication)
- **Intern at University Placement Cell, JMI:** Worked as a content writer.
- **Writing Mentorship Program, Economics Society, SRCC:** Participated in the two-week mentorship program as a mentee to enhance writing and editing skills.