

## MOHINI RANA

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### SUMMARY

Machine Learning and Data Science enthusiast with 2+ years of experience using data pre-processing, predictive modeling with time series forecasting algorithms to solve challenging business problems. Proven skills in leading large teams, with a focus on optimizing development processes to enhance efficiency and accuracy for data-driven solutions.

### EDUCATION

Master's in Computer Science and Engineering | Santa Clara University, USA | GPA - 4/4 | 2021 - 2023

Bachelor of Engineering (Information Technology) | University of Pune, India | GPA - 3.48/4 | 2015 - 2019

### PROFESSIONAL EXPERIENCE

***Publishing Assistant, Miller Center for Social Entrepreneurship, Santa Clara, USA***

**Nov 2021 - Nov 2021**

- I was responsible for assisting in creating books using the Bookwright software.
- I worked on helping the Miller Center team to create, design, and organize various pages of about 10-15 books.

***Associate Consultant - Data Scientist, Supply Chain Apps, Bristlecone, Pune, India***

**July 2019 - Sept 2021**

- Worked on writing algorithms in Python for demand forecasting using time series- VAR, Arima, Sarimax, Prophet, Holt-Winters, Naïve Bayes, writing other Machine Learning algorithms such as linear regression, logistic regression, k-means clustering, random forest for tasks involving the prediction of sales data.
- Gained hands-on experience in data pre-processing, data cleaning, and handling missing data.
- Worked on six POCs and was also responsible for carrying out extensive research-related activities involving competitor analysis, providing insights, and presenting my findings using Tableau and PowerPoint presentations.
- I was awarded for my contributions to my projects and also organizing events - a Brilliant Beginner and two SPOT awards.

***ML Engineer Intern, DigitalMain, Pune, India***

**March 2018 - June 2019**

- Worked as an active member of the team for the AI/ML Innovation Project.
- The tools and technology used were Semantic Text Analysis and using Deep Learning and Neural Networking.
- The project involved me to find a solution to one of the ongoing projects at DigitalMain. I had to build a working POC to reduce the redundancy of questions by creating a POC to identify similar questions.
- Carried out research in the domain, studied various concepts, and applied the knowledge to build the Similar Questions Identifier Model for DigitalMain, and published my findings in the IJRAR Journal.  
<https://github.com/MohiniRana/My-Profile/blob/main/Survey%20Paper.pdf>

***Business Analyst Intern in IT, Vidya Online Services, Pune, India***

**July 2018 - Oct 2018**

- Prepared documents like Business Requirement documents, Functional Requirement documents for clients, and applied knowledge of Software Development Life Cycle and Project Management.
- Created a User - Manual Document for one of the clients for their website.

### ACADEMIC PROJECTS

- Similar Question Identifier using Deep Learning, Neural Networks in Python
- Lightweight Mutual Authentication for IOT & Its Applications using RSA and ECC
- Attendance Monitoring System website using HTML5, CSS3, SQL, Java
- Periodic Table using SQL and Java

### TECHNICAL SKILLS

Python, C, C++, Java, Tableau, R Studio, MySQL, HTML, CSS, Canva, BookWright, MS Excel, MS PowerPoint, MS Word

### AFFILIATIONS

Held positions of Technical Secretary (2018-19), Technical Head (2017-18), and Discipline Head (2016-17) during College Fest Alacrity, Treasurer (2018 - 2019) of Dept. of IT Engg Dept, and was the General Secretary (2015-16) of First-Year Dept., and was Internshala Student Partner for 3 consecutive semesters (2018-2019)

### INTERESTS

Reading, playing table tennis, solving puzzles, learning new software tools to improve personal efficiency and effectiveness, volunteering, event management.