

Rachita Jain

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SUMMARY

Graduate student looking for a full-time role to apply in-depth understanding of advance concepts of Statistics and Data Science. Bringing 3 years of Machine Learning work experience and strong programming skills.

EDUCATION

- **University of Pittsburgh** Pittsburgh, PA
Master of Science in Information Science *Anticipated Graduation Apr 2021*
- **Govt. Engineering College** Ajmer, India
Bachelor of Technology in Information Technology; GPA: 3.70 (9.15/10.0) *Aug 2012 - May 2016*

PROGRAMMING SKILLS

Languages: Python, R, SQL, MATLAB

Technologies: AWS, Tableau, Flask

Data Science Tools: Tensorflow, PyTorch, Pandas, Scikit-learn, NLTK, spaCy, ggplot, seaborn, Plotly

EXPERIENCE

- **SVC Research, University of Pittsburgh** Pittsburgh, PA
Data Analyst *Jun 2020 - Present*
 - **Gender Prediction:** Developed a Bi-LSTM network to predict genders of research paper authors using PyTorch.
 - **Data Analysis:** Used statistical tools like Decision Trees, Clustering, Bayesian Analysis with Python to gain insights into the gender based disparities in academic research during the Covid-19 pandemic. Reported findings.
 - **Visualization:** Created interactive dashboards using Tableau, Seaborn and Plotly to display data visualizations on the Pitt SVC website.
- **University of Pittsburgh & UPMC** Pittsburgh, PA
Graduate Research Assistant *Jan 2020 - Present*
 - **Patient Survivability Prediction:** Predicted patient's survivability on the basis of their EEG readings. Improved the prediction accuracy of the system to 91% from 62%.
 - **Interpretable Rules to help Doctors at UPMC:** Generated interpretable rules that minimize the cognitive overload of experts/doctors.
- **Wipro HOLMES** Pune, India
Machine Learning Engineer *March 2017 - Aug 2019*
 - **Contract Intelligence Solution:** Developed a document segmentation and its hierarchical structure identification model for legal documents' with 89% accuracy, leveraging Deep Learning and NLP concepts, using NLTK, spaCy and PyTorch.
 - **AI Pipeline:** Redesigned and optimized contract processing AI pipeline, leading to 35% reduced processing time.
 - **NER for legal contracts:** Implemented a custom named-entity recognizer for extraction of various legal clauses.
- **Flo Chat** Mumbai, India
Machine Learning Engineer *Jun 2016 - Mar 2017*
 - **Chatbot:** Developed a chatbot called Floda (inspired from Yoda!) capable of carrying out general and witty conversations built on LSTM.
 - **Recommender System:** Implemented the movies and cabs recommender system for the app. Docker and CI/CD based deployment of codebase on AWS server.

PROJECTS

- **Data Professional Salary Trend Survey:** Analysis of salaries of data professionals over the years. Created visualizations using Seaborn and Matplotlib to show insights into patterns uncovered from the analytics on dataset.
- **Skin Cancer Detection using Deep Learning- ISIC Challenge 2019:** Ensemble based approach of ResNet-50 and EfficientNet-b0 for skin lesion detection and classification problem with 64% accuracy (among top 5 on the competition leaderboard).
- **Face Identification and Verification, CMU:** Implemented an improved MobileNetV2 CNN architecture-based classifier for N-way face classification. Achieved an accuracy of 82% and secured 2nd position on the Kaggle leaderboard (private competition of 600 students).