

Anjali Suman

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Research Interests

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|-------------------------|----------------------------------|-------------------------------|
| Machine Learning | ○ Computer Vision | ○ Survival Analysis |
| | ○ Physics-aided Machine Learning | ○ Gradient Descent Algorithms |
| | ○ Sampling Techniques | ○ Time Series |
| | ○ Exploratory Data Analysis | ○ Data Visualization |

Education

- 2018 **Master of Science in Statistics**, *Hindu College, University of Delhi*, Delhi, 59%*
- 2016 **Bachelor of Science in Statistics with Honors**, *Ramanujan College, University of Delhi*, Delhi, 75%
- 2013 **High School**, *Krishna Niketan (CBSE)*, Patna, Bihar, 80%
- 2011 **Secondary School**, *Krishna Niketan (CBSE)*, Patna, Bihar, 9.2*
- *on a scale of 10

Technical Skills

Python

PyTorch, Jupyter

Computational Statistical Packages

R, SPSS, SAS (Basic knowledge)

Computer Languages

C++, C (Working knowledge)

Others

MATLAB, Octave, Ubuntu, L^AT_EX

Work Experience

- June, 2022 - Oklahoma State University (online)
- Present (Deep) Survival analysis for predictive maintenance of machines
- Mentor** Prof. Akash Deep
- 2019-20 Sureland Industrial Fire Safety Limited
- 2017 Cricwin, Cheruniq Technology Pvt Ltd

Project Involvements

Survival Analysis & Machine Learning

Mentor Prof. Akash Deep

- 2022
- This project aims to combine machine learning with survival analysis (biostatistics) to predict the failure of machines in an industry.
 - We draw analogy between machine failure and survival analysis concepts.
 - We aim to implement a multi-event failure model to predict the survivability of machines in an industrial setting.

Inter-state migration pattern in India

GitHub: <https://github.com/AnjaliML/InterStateMigrationIndia.git>

- 2022
- We bring out a comparative picture of people migrating to neighboring states and the rest of the country.
 - We find a list of the top 10 employing states.
 - We bring out a clear picture of the gender ratio of workers migrating to a given state from states all over India.

Sureland industrial fire safety limited

2019-20 Design & Analysis Department

- The company specialized in fire safety. I used machine learning to analyse fire accident statistics and the effectiveness of smoke detectors. An important aspect was also to judge and recommend the location of smoke detectors.

Fantasy league score calculator

GitHub: <https://github.com/AnjaliML/FantasyCricket.git>

- 2017
- Determination of factors that affect the cricket's performance in a given match through confirmatory factor analysis.
 - Determination of the weights of the contributions made by these factors on the value added by the player to his/her team.
 - Prediction of the credit score of the individual players based on past records and the factors obtained through confirmatory factor analysis

Quality Assessment of Academic Website Using Sampling Techniques

GitHub: <https://github.com/AnjaliML/AcademicWebsiteSampling.git>

Mentor Dr. Garima Priyadarshini

- 2016
- A Variety of studies has been conducted on websites.
 - These studies are broadly based on heuristic analysis, surveys through questionnaires, interviews or web analysis tools (like Google analytics).
 - We made a hypothesis according to questionnaire and analyze them through responses using some sampling techniques

Professional Development

- 2015 Indian Society of Agricultural Science: 68th Annual Conference.
- 2014 IBM SPSS (Statistical Package for the Social Sciences) workshop.
- 2014 INCOMECT (International Conference on Management Education & Corporate Transformation)
- 2014 Workshop on R-Language.
- 2014 WinQSB for Operation Research workshop.
- 2013 International DU conference.

Languages

English	Fluent	<i>Daily practice, all work performed in English</i>
Hindi	Native	<i>Mother Tongue</i>

Extra-Curricular

- 2016 Conference organizer team: Recent Statistical Computing Techniques and their applications

References

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Prof. Vijay Kumar Pandey
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Bareilly College
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