

# Rajeev Ranjan Dwivedi

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## EDUCATION

### PhD - DATA SCIENCE

Bhopal, MP, IN | July 2022

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL

Advisor : ...

### INTEGRATED M.Sc. STATISTICS

Ajmer, RJ, IN | August 2021

CENTRAL UNIVERSITY OF RAJASTHAN

**Masters Thesis :** Proposed new distribution function - **Skew Laplace Slash Beta** from Slash Family of distribution which is asymmetric, heavy tailed and accounts for extreme values and outliers.

### INTERMEDIATE - Class 12th

Gonda, UP, IN | May 2015

FATIMA SENIOR SECONDARY SCHOOL

## WORK EXPERIENCE

### NIT - KURUKSHETRA | RESEARCH INTERN

WFH | Feb 2022 - Present

- Implementing Attention Mechanisms to a variety of data-sets with special focus on Fake News Classification.
- Making models and pipelines for Automated Legal Judgement Prediction.

### REMISSAS INDIA PVT. LTD. | DATA ANALYST INTERN

Jaipur, RJ, IN | May 2019 - Nov 2019

- Analysed data generated from solar plants and helped in building model to efficiently manage power grids.
- Used pivot tables and created insightful graphics using daily data on energy produced and demanded.

### IIM - LUCKNOW | DATA SCIENCE AND ANALYTICS INTERN

Lucknow, UP, IN | Jan 2018 - Feb 2018

- Solved three Harvard Business Review Cases(use) cases to learn the business analytic and marketing techniques.
- Learnt R programming and basics of marketing analytics.

## PROJECTS

### ENSEMBLE MODEL FOR TIME SERIES ANALYSIS

R, NEURAL NETWORK, ARIMA, RESIDUAL MODELLING

Modelled time series using ARIMA and further used Neural Networks(NNAR, ANN) to model the residuals. Used Prophet library for forecasting.

### AUTOMATED BREAST CANCER CLASSIFICATION

PYTHON, CLASSIFICATION, PCA, RANDOM FOREST

Made model to classify Malignant and Benign type breast cancer. Used random forest to classify with prediction accuracy of 95% and a cross-validation score 93% for the test data set.

### EMPLOYEE ATTRITION RATE PREDICTION

R, LINEAR MODEL, CLASSIFICATION

Made linear model on simulated HR data-set to predict if an employee has any chance of premature leaving the company.

### SENTIMENT ANALYSIS OF REVIEWS

PYTHON, CLASSIFIER, NAIVE BAYES, SVM

Trained a SVM classifier on Stanford Sentiment Tree Dataset, and predicted the fine grained sentiments for reviews of mobile phones scraped from Amazon.

### FAKE JOB DESCRIPTION PREDICTION

PYTHON, SVM, NAIVE BAYES, PANDAS, RANDOM FOREST

Trained Kaggle fake job description prediction dataset with Naive Bayes, SVM and Random Forest and deployed it on herokuapp. SVM performed best with 85% AUC - ROC score.

## SKILLS

**Operating System:** Linux, Windows

**Programming Languages:** R, Python, C, C++, SAS, SQL

**Softwares** Mathematica, SPSS, MS-EXCEL, Tableau

**Tools / Framework** Github, Pandas, Numpy, Matplotlib, Seaborn, Markdown,  $\text{\LaTeX}$

## COURSEWORK

Probability Theory, Distribution Theory, Econometrics, Microeconomics, Macroeconomics, Economics Thought, Linear Algebra, Real Analysis, Linear Models, Stochastic Models, Inference, Time Series Analysis, Multivariate Statistics, Development Statistics, Statistical Quality Control, Statistical Quality Management, Bayesian Inference, Elementary Reliability Theory, Decision Theory, Sampling Theory, Machine Learning, Data Mining.

## ACTIVITIES & INTERESTS

- Holding **Program Coordinator** position in the **Caring Hands Foundation** - an NGO recognized by UN Global Compact Network.
- **University Student Head** of Institute Innovation Council (IIC) - an initiative of MHRD (Ministry of Human Resource and Development) for fostering innovations in intuitions.
- Initiated University Magazine **ASTITVA** and worked as Chief Editor for 2 consecutive years.
- Received best presentation award twice among 500+ students during Data Science and Analytics internship.

## CERTIFICATIONS

- Completed 4 out of 8 courses of **Google Data Analytics Professional Certification** [COURSERA]
  - Completed 2 out of 6 courses of **Google Project Management Professional Certification** [COURSERA]
  - Data Science and Analytics using R programming [UDEMY]
  - Data Science For Engineers [NPTEL]
  - Mathematics for Machine Learning:PCA [COURSERA]
  - Practical Time Series Analysis [COURSERA]
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