

ADITYA KISHOR RANADE

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EDUCATION

Iowa State University, Ames, IA
Doctor of Philosophy (Statistics)

ongoing
GPA: 3.72

San Diego State University, San Diego, CA
Master of Science (Statistics)

Spring 19
GPA: 3.65

SKILLS: MATLAB, Prophet, Python, JMP, R, LaTeX, SPSS, SQL, Excel (Advanced functions), problem solving, pattern and trend identification, Data science research methods, Experimental designs, Quantitative Methods, Data Visualization, data manipulation.

WORK EXPERIENCE

Iowa State University
Instructor

Aug 19 – present

- STAT226 Introduction to Business Statistics I (Fall 2021, Spring 2022 and Fall 2022)
- STAT326 Introduction to Business Statistics II (Summer 2022)
- Teaching excellence award in Spring 2022
- Mentored an undergraduate student in research project in Spring 2022

San Diego State University
Teaching Associate

Jan 18 – May 19

- STAT250 Statistical Principles and Practices: Lab Instructor (Fall 2018 and Spring 2019)
- STAT596 R Programming and Data Science: Teaching Assistant (Spring 2018)

Birla Sun Life Insurance, Mumbai, India

Apr 16 – Apr 17

Actuarial Analyst (Actuarial Valuation Team)

- Database management and manipulation of monthly new business of health, group and individual type of policies.
- Valuation of Group reinsurance premium, Group, Health and Rider claims. Analyzing the claims recovery trends.
- Preparation of various forms for annual submission to Insurance Regulatory and Development Authority of India (IRDAI).

Nielsen India Pvt. Ltd., Mumbai, India

May 14 – Jan 15

Research Associate (Social Sciences Research Team)

- Development and pilot testing questionnaire and with research team of the client (World Bank) to be used for surveys.
 - Development of checks to minimize the data collection errors and training the survey personnel with the methodology.
 - Training the survey personnel with the methodology and computer program of survey. Monitoring field visits.
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CONSULTATION WORK

- Helped a small restaurant increase profits by around 10% by cutting down on wastage by employing ABC analysis (inventory categorization technique) on the past two years data of raw materials, demand and profit margin on each category of food.
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ACADEMIC PROJECTS

Predictive Modeling and Analysis | Data Science [[Report Link Project 1](#) | [Report Link Project 2](#)]

- **Project 1:** Predictive model to predict future expenditure of two municipalities in the same location of New York.
- **Project 2:** Built Analysis of Covariance model to distinguish between 3 different categories of product according to quality.

Classification Modeling and Analysis | Data Science [[Report Link Project 1](#) | [Report Link Project 2](#)]

- **Project 1:** Built a classifier model with 73% accuracy on Ohio state university prostate cancer dataset to determine the chances of developing cancer based on baseline measurements collected during routine checkup.
- **Project 2:** Use and evaluation of classification algorithms to determine applications popularity in google play store.

Machine learning in Sports | Machine Learning [[Report Link](#)]

- Built and compared three predictive models (Lasso, Bagging and Regression) to predict the salary for baseball players.

Mixed Models | Data Science [[Report Link Project 1](#) | [Report Link Project 2](#)]

- **Project 1:** Mixed effects model to predict the number of points at the end of the season for a team in German Soccer league
 - **Project 2:** A mixed effects model identifying the impact of factors on mortality due to Influenza and Pneumonia in US.
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ACTUARIAL QUALIFICATION EXAMS:

Exam [CT1](#) : Financial Mathematics (Institute and Faculty of Actuaries),

Exam [CT3](#) : Probability and Mathematical Statistics (Institute of Actuaries of India)

Exam [CT9](#) : Business Awareness (Institute of Actuaries of India)