

# ADITYA KISHOR RANADE

Ames, IA | 6195345954 | [adityaranade08@gmail.com](mailto:adityaranade08@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Website](#)

---

## 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.
- 

## 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.
- 

## 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 risk classification model with 73% accuracy on Ohio state university prostate cancer dataset.
- **Project 2:** Use and evaluation of classification algorithms to determine applications popularity in google play store.

Bayesian techniques in Sports | Machine Learning [[Report Link Project 1](#) | [Report Link Project 2](#)]

- **Project 1:** Bayesian Logistic regression model to predict winner of Indian Premier League (IPL) based on league standing.
- **Project 2:** Bayesian analysis surprising reveals that the best team does not win Indian Premier League tournament

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.
- 

## 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)