

## Preethi S. Ranganathan

Santa Clara, CA 95053

[psubbrayanranganatha@scu.edu](mailto:psubbrayanranganatha@scu.edu), 415-794-2244, [linkedin.com/in/preethi-s-ranganathan](https://www.linkedin.com/in/preethi-s-ranganathan), <https://github.com/PreethiSR>,

**Visa Status:** H4 – EAD valid till 2021.

### TECHNICAL SKILLS

- Programming Languages: **Python** (NumPy, pandas, scikit-learn, matplotlib, seaborn), **R** (data table, dplyr, ggplot), Java
- Tools & Technologies: **SQL, Tableau**, Map Reduce, **PySpark, Excel**, Guidewire Insurance Suite
- Scientific: Data Wrangling and Visualization, Hypothesis Testing, Econometrics, Panel Data Analysis
- Machine Learning: Regression Modeling (Linear, Logistic, Count Data Models), Bayesian Techniques, Support Vector Machines, k-Means, KNN, Classification & Regression Trees, Topic Modeling and Sentiment Analysis, Deep Learning.
- Databases: MySQL, MongoDB

### EXPERIENCE

#### BOX Inc

Redwood City, CA

*Practicum Data Science Intern*

July 2018 - Dec 2018

- **Weekly Active Users (WAU) Prediction - Research paper:** Built **prediction models** to predict weekly active users (WAU) using Box customer's data on file-sharing activities within a firm; Created **Tableau dashboards** with interactive dynamic network graphs based on network metrics; Developed a **research paper** based on results and **filed for a patent**.

#### Ernst & Young Global Shared Services

Bangalore, India

*Senior Software Engineer - IT Advisory*

June 2012 – Nov 2015

- Designed an **automated batch process** to create analytic reports, using **MS-SQL and Java**, to advise management on data-driven decisions on a daily basis.
- Integrated an insurance claim management system with multiple claim inquiry and evaluation systems; collaborated with business, configuration, and testing teams, improving fraud detection capability of the existing system.
- Increased revenue up to \$1M by analyzing and resolving production issues via instant workarounds and permanent solutions.
- Collaborated with a team of seven to develop a resource management tool to ease job allocation tasks within the organization and improve manager productivity.

### ACADEMIC PROJECTS

- **Quora Duplicate Questions Identification with Deep Learning Models for NLP:** Solved the problem of identifying whether a given question is duplicate of another or not i.e. two questions contain the same meaning with an accuracy of 82.16% using Siamese **Recurrent Neural Networks**.
- **Text Analytics with Amazon Customer Reviews:** Executed **topic modeling** using Latent Dirichlet Allocation to identify common complaints in reviews; built **prediction models** to classify whether a review is helpful or not, using the content characteristics of existing reviews as features to influence customers write better reviews.
- **Impact of Salesperson Training in Retail:** Quantified the impact of training on sales, product returns and perceived salesperson performance across various stores by building **linear and logistic regression models**, using R, to generate significant managerial insights and recommendations to increase sales.

### EDUCATION

#### Santa Clara University, Leavey School of Business

Santa Clara, CA

*Master of Science in Business Analytics*

December 2018

- Graduate Teaching Assistant for Math for Finance, 2018.
- Merit-based scholarship recipient awarded for academic excellence, 2018.
- GPA: 3.92; MSBA Program Admissions Ambassador, 2018.

#### Anna University, College of Engineering Guindy

Chennai, India

*Bachelor in Electronics & Communication Engineering*

April 2012

### ADDITIONAL INFORMATION

**Certifications:** Guidewire Specialist Certification in Insurance Suite 7.0 Integration in 2013; Guidewire Technical Certification in PolicyCenter 7.0 Application Integration in 2014.

**Awards:** Earned "Extra Miler Award" from Ernst & Young for job excellence in 2013, 2014 and 2015.