

# Virtee Parekh

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🏠 New York, NY

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## OBJECTIVE

Data scientist looking for a **full-time** role to employ my skills in **data science** and **machine learning**

## WORK EXPERIENCE

### Business Intelligence Analyst II at Indeed.com

Feb 2019 – Present

- Partnered with Finance to build a dashboard that monitors leading indicators that are reliable signals of imminent changes to revenue.
- Built a scalable revenue forecasting pipeline using multivariate time series analysis that helps the senior leadership plan investments better.
- Developed a quota pacing dashboard for the Sales team using predictive modeling that saved resources worth millions.
- Reduced the error of a forecasting model across markets from 20% to 7% that has a revenue impact in hundreds of thousands.
- Built a machine learning model to predict the number of requisitions made that facilitate better decision making for Sales.
- Conducted causal impact analysis to determine the impact of accepting of alternate payment methods on revenue.
- Performed survival analysis to develop an interpretable model that predicts lifetime value, affecting significant portions of the marketing budget.
- Led a machine learning study group for a team of 15+ members where I presented tutorials and curated learning resources.
- **Technical Stack:** Python, SQL, Machine Learning, Time Series Forecasting, Statistical Analysis, Tableau, AWS

### Teaching Assistant at Rochester Institute of Technology

Jan 2018 – Dec 2018

- CSCI 720 - Big Data Analytics
- CSCI 420 - Principles of Data Mining

### Business Intelligence Intern at Indeed.com

May 2018 – Aug 2018

- Built a revenue forecasting model with an error rate of 5% that reduced manual effort by 1 hour daily.
- Performed exploratory data analysis to address an unsolved business problem of building logic from complex source data.
- Restructured existing reports and data sources for performance improvements.
- **Technical Stack:** Python, SQL, Prophet, Time Series Analysis and Forecasting

### Data Scientist Intern at ITT – Goulds Pumps

Feb 2018 – Apr 2018

- Prepared the dataset, including labeling the data and balancing the classes.
- Developed models that facilitate machine health monitoring and failure prediction using anomaly detection.
- **Technical Stack:** Python, R, Machine Learning, Anomaly Detection

## SKILLS

Programming/Scripting Languages	Python, R, Java
Databases/Query Engines	PostgreSQL, Snowflake, Presto, Hive
Data Science Libraries	Pandas, Scikit-learn, Statsmodels, Prophet, NLTK, Keras, PyTorch
Visualization Tools	Tableau
Cloud Computing Platforms	Amazon Web Services

## EDUCATION

Master of Science in Computer Science	Rochester Institute of Technology	Dec 2018
Bachelor of Engineering in Computer Engineering	University of Pune	May 2016

## PROJECTS

### Spotify Podcast Recommender System

- Developing a content-based recommender system using the Spotify podcast data.
- **Technical Stack:** Python, Spotify API, Recommender Systems, Natural Language Processing

### Evaluating Credibility of Web – Based News Articles

- Aggregated a labeled dataset by scraping online news articles.
- Built a model to detect fake news by using feature extraction and deep learning which achieved a test accuracy of 91%.
- Improved the semantic understanding using word embeddings, thus boosting the accuracy of the model by 6%.
- **Technical Stack:** Python, Scikit-Learn, Keras, Deep Learning, Natural Language Processing

### Exploring Latent Cognitive Biases in Employer Compensation

- Performed exploratory data analysis to look for observable trends on companies that have a gender pay gap.
- Identified pay gap patterns that differ for various organizations and found a correlation of pay gaps with sectors, locations, and company sizes.
- Analyzed tweets related to the gender pay gap by performing sentiment analysis and generating word clouds.
- **Technical Stack:** Python, R, Tableau

## ADDITIONAL EXPERIENCE AND AWARDS

- Winner of Product, Technology, and Engineering award in an Indeed-wide hackathon for developing a resume information extraction tool.
- Writer at [The ML Rebellion](#).