

# AMANDEEP RATHEE

Data Scientist • Kaggle Expert

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## EDUCATION

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- **Duke University** Durham, NC  
*MS in Data Science* *August 2019 – May 2021*  
**Relevant coursework:** Data to Decision, Modeling and Representation of Data, Machine Learning, Data Visualization, Text Analytics and Data Ethics
- **Visvesvaraya Technological University** Bengaluru, India  
*BS in Computer Science* *August 2013 – June 2017*  
**Helmet Detection on Two-wheeler Riders Using Machine Learning:** Developed an automated machine learning system for the local traffic department that detects people riding a two-wheeler without a helmet. Presented the project in a technical conference in Bengaluru, India and published a paper in the journal IJAECS.

## SKILLS

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- **Languages:** Python, R, SQL
- **Tools:** Pandas, Numpy, Matplotlib, Seaborn, Keras, Scikit-learn, tidyverse, caret
- **Machine Learning:** Regression, Support Vector Machines, Decision trees, Bagging, Boosting, Neural networks, Clustering

## EMPLOYMENT

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- **Data Science Content Strategist** Bengaluru and Mumbai, India  
*Upgrad Education Privated Limited* *July 2017 - May 2019*
  - **Course Content Creation:** Improved course ratings of the *Data Science* and *Machine Learning & AI* programs by 15% and job placement rate of students of the programs by 133% by conceptualizing and implementing learning goals, lesson plans, demonstrations, assessments and programming assignments.
  - **Machine Learning & AI Program:** Increased the revenue of this one-year online program by \$500,000 and helped it become #1 in India by creating modules on deep neural networks, machine learning and natural language processing.
  - **Data Science Program:** Drove the net promoter score from +25% to +60% in under a year by creating high-quality data science courses through collaboration with professors, subject matter experts, product managers, and the editing and the tech teams.
  - **Leveraged knowledge** in data analysis, data visualization, and machine learning by working on projects such as *Text Generator Using Bidirectional Neural Networks*, *Email Spam Detection*, *Patient Readmission Prediction* and *Telecom Churn Analyses*.
- **Data Science Consultant** *Oct 2016 - June 2017*  
*Upwork Global, Inc.*
  - Deployed data science projects such as *Gesture Recognition*, *Server Downtime Predictor* and *Credit Card Fraud Detector* with an average project rating of 4.97/5 for clients around the globe in computer vision, IT and finance.

## PROJECTS

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- **Kaggle:** Ranked #33 among 100,000+ data science practitioners on Kaggle as a result of winning one gold, one silver and seven bronze medals by sharing insightful analyses using open data.
- **H1B Visa Analyses:** Investigated the trend in number of H1B visa issued under the Trump administration across different organizations and industries using eye-catching visualizations, and created an easy-to-understand story.
- **Black Friday Sales:** Achieved a leaderboard rank of #52 among 15000 participants by creating a machine learning model to predict Black Friday sales for a retail company that sells multiple kinds of products.
- **Sentiment Analysis:** Analyzed public opinion on Demonetization – a highly controversial currency ban happened in India in 2016 – using Twitter API to find out whether people were for or against the policy.
- **Socio-economic Development Index:** Created an index to rank the districts of Odisha (India) by examining socio-economic factors using the government's open data to highlight the underdeveloped regions of the state.