

# Shivam Vats

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## EDUCATION

University of Colorado, Boulder

May 2024

### Masters in Data Science

Relevant Coursework: **Statistical Methods and Applications, Data mining, Machine Learning**

University School of Information, Communication and Technology, New Delhi

May 2020

### Bachelor of Technology in Computer Science

GPA - 8.27

## SKILLS

- **Programming Languages and Databases:** Python, R, SQL, Javascript, NodeJs, ReactJs, HTML, CSS, Mongo.
- **Data Science:** Pandas, Numpy, Scikit-learn, Keras, Tidyverse, R-Markdown, Matplotlib, Seaborn, Tableau, Selenium
- **Certifications:** Deeplearning.AI, Data Science and Machine learning, AWS Solutions Architect Associate

## PROFESSIONAL EXPERIENCE

Amazon Web Services, Hyderabad, India

### Cloud Support Engineer – 1

Jul 2020 – Aug 2022

- Designed and developed React-Redux application for customer support engineers reducing time taken by an average support engineer to debug an AWS Organizations ticket by 18%.
- Optimized customers' AWS architectures to be scalable, reliable, and efficient by providing expert advice in identity and access management and authentication management using IAM, Single Sign-on and Cognito services provided by AWS. Guided customers to follow the principle of AWS Well-Architected Framework and security best practice.
- Assisted 200+ customers in real-time via calls and chats to debug security and monitoring components of cloud applications. Solved 700+ tickets on services like Amazon Cognito, S3, IAM, EC2 and performed 90+ quality reviews of problem solving.

### Cloud Support Intern

Feb 2020 – Jul 2020

- Addressed customers' requests to automate monitoring and migration of AWS Cognito users to facilitate disaster management and security compliance. Leveraged AWS Lambda, CloudFormation and CloudWatch to build the backend logic.

Marsplay, New Delhi, India

Aug 2020 – Jun 2021

### Full Stack Web Developer Intern

- Built search engine optimization scripts in NodeJS that increased weekly average number of visits to website by 10%.
- Tackled unauthorized access to the website by devising a mechanism that automatically blacklist unused JSON Web Tokens.

## PROJECT EXPERIENCES

### Its Ronaldo [\[link\]](#)

Aug 2021

- Performed data analysis on game statistics of Cristiano Ronaldo. Cleaned, analyzed, and visualized data using Numpy, Pandas and Matplotlib. Conducted PCA along with multivariate analysis for feature selection.
- Implemented logistic regression, SVM, random forests and KNN using scikit-learn to classify if a shot is converted to a goal.
- Architected neural network using Keras and applied cyclical learning rates to improve accuracy of classification by 10%.

### Sahayata ("Help" in Hindi) [\[link\]](#)

Mar 2020

- Programmed data scraping scripts using Selenium to gather rice crop data from 2001 to 2012 in North Indian districts.
- Engineered ETL pipeline in python and performed visualizations using Matplotlib and Tableau to garner trends and patterns.

### Bon Appetit [\[link\]](#)

Sep 2019

- Analyzed over 9000 Indian restaurants' cuisines, ratings, and demographics. Mined data using Zomato's API in python.
- Cleaned data using Numpy and Pandas. Further, leveraged gaussian kernel density estimate to visualize numerical features.

### US Airlines Sentiment Analysis [\[link\]](#)

Nov 2019

- Classified tweets using multinomial logistic regression built upon naive bayes. Leveraged NLTK to transform the data.

## ACHIEVEMENTS

### Winner – Smart India Hackathon

Mar 2019

Created an application to reduce exploitation faced by Indian farmers by middlemen. Developed mobile and web application with ReactJs and NodeJs to sell crop produce online, book crop storage facilities and logistics services.