

# Shivam Vats

New Delhi | +91-9891474989

shivam.vats@colorado.edu | [GitHub](#) | [LinkedIn](#)

## EDUCATION

University of Colorado Boulder – MS Data Science Residential	Fall 2022
University School of Information and Communication Technology, GGSIPU	2016-20
B. Tech in Computer Science Engineering	GPA 8.27

## WORK EXPERIENCE

**Amazon Web Services – Cloud Support Engineer - 1** Aug '21 – Aug '22

- Collaborated with development and support teams to study and understand customers' use-cases which involved integration of multiple AWS services and innovated in it to assist customers with better solutions.

**Amazon Web Services – Cloud Support Associate** Jul '20 – July '21

- Responsible for providing in-depth technical support to AWS's customers via chat and call. Gained expertise in AWS services such as Cognito, Single-Sign-On, Organizations, IAM.

**Amazon Web Services – Cloud Support Intern** Feb '20 – Jul '20

- Designed and developed a React-Redux web application for AWS engineers. This application is used for interpreting customers' AWS Organization hierarchy and understand about access management of entities.
- Application's user interface was inspired from the AWS management console. Since engineers worked with AWS console, it made the application faster to use. User interface was developed using React.

**Marsplay.co – Full Stack Web Developer Intern** May '19 – July '19

- Sitemaps generation of Marsplay official website for search engine optimization. Built functionality of Blacklisting JWT tokens to stop unauthorized access of users after they log out of the website.
- Developed React components and integrated them into different pages of the website.

## PROJECTS

### Sahayata

- Developed Data Science and Machine Learning project to gain insights of future prices of rice in North Indian
- Gathered data by scrapping open-source government resource using Selenium scripts. Analyzed behavior of crop prices against different parameters such as annual rainfall and inflation using Matplotlib and Tableau.
- Transformed and cleaned the data using Numpy and Pandas. Developed crop price prediction model using Artificial neural network with Keras and Scikit-learn. Also built a time series model using LSTM.

### Its Ronaldo!

- Data Science project developed to gain insights on game behavior of Cristiano Ronaldo (football ace).
- Cleaned the data using Numpy and Pandas. Used feature extraction functions such as PCA and inbuilt univariate selection methods in Scikit-learn. Visualized multiple features' association using Matplotlib graphs.
- Built classification model using Artificial neural network with Keras to predict if he scores or not. Searched suitable learning rate for the network using LR-finder. Implemented Hyper-parameterization using Scikit-learn.

### Bon Appetit

- Case study to analyze restaurants' cuisines, ratings, and demographics. Used Matplotlib for visualization. Extracted data from Zomato's API. Transformed data using Numpy and Pandas.

### US Airlines Sentiment Analysis

- Performed sentiment analysis over US airlines twitter sentiments dataset. Predicted if a tweet is positive, negative, or neutral using multinomial logistic regression. Transformed the data using NLTK and Scikit-learn.

## ACHIEVEMENTS

### Winner - Smart India Hackathon

- Developed a web application using which a farmer can sell produce in markets, book crop storage and transport facilities based on user's location. Integrated support in application for other key stakeholders as well.
- Application supported multiple languages for better user experience across different regions.

## TECHNICAL SKILLS

**Languages/Frameworks/Database:** Python, JavaScript, C++, Node, React, SQL, Mongo

**Domains:** Data Science, Full Stack Web Development, AWS Cloud Computing

**Certifications:** Data Science and Machine Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and optimizations, AWS Solutions Architect Associate