Shivam Vats

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EDUCATION

University of Colorado Boulder – Masters in Data Science   **08/2022 – Present**
Relevant Courses: Statistical Methods and Applications, Data Mining, Machine Learning

University School of Information, Communication and Technology, New Delhi, India   **08/2016 – 05/2020**
Bachelor of Technology in Computer Science   **GPA - 8.27**

PROFESSIONAL EXPERIENCE

Amazon Web Services, Hyderabad, India   **07/2021 – 08/2022**
Cloud Support Engineer – 1

-   Assisted 500+ AWS customers to architect scalable and available solutions for authentication and identity and access management.
-   Collaborated with support teams to study and analyze customers' use cases related to networks and security.

Cloud Support Associate   **07/2020 – 07/2021**

-   Articulated and provided in-depth technical solutions to AWS customers via chat and calls that sums up to 700+ tickets

Cloud Support Intern   **02/2020 – 07/2020**

-   Designed and developed React-Redux application for customer support engineers.
-   It reduced the time taken by an average support engineer to debug an AWS Organizations ticket by 18%.
-   Facilitated visualization of Organizations' hierarchical structure that is required to resolve the ticket efficiently.

Marsplay, New Delhi, India   **08/2020 – 06/2021**
Full Stack Web Developer Intern

-   Built search engine optimization scripts in NodeJS that increased the weekly average number of visits to the website by 12%.
-   Tackled the security vulnerability of unauthorized access to the website by designing a mechanism that automatically blacklist unused JSON Web Tokens of users.

PROJECTS

Its Ronaldo 🔗

-   Performed data analysis on game statistics of Cristiano Ronaldo. Cleaned, analyzed, and visualized the 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 used cyclical learning rates to improve the accuracy of classification by 10%.

Sahayata ("Help" in Hindi) 🔗

-   Programmed data scraping scripts using Selenium to gather rice crop data from 2001 to 2012 in North Indian districts.
-   Created ETL pipeline in python and designed visualizations using Pandas and Matplotlib to garner trends and seasonality

Bon Appetit 🔗

-   Prepared a case study to analyze restaurants' cuisines, ratings, and demographics. Mined data using Zomato's API in python.
-   Cleaned data using Numpy and Pandas. Further, used Gaussian kernel density estimate to visualize numerical features.

US Airlines Sentiment Analysis

-   Classified tweets using multinomial logistic regression built upon naive bayes. Transformed data using NLTK and Scikit-learn.

ACHIEVEMENTS

Winner – Smart India Hackathon   **03/2019**
Created an application to reduce the exploitation faced by Indian farmers by middlemen. Developed the mobile and web application using ReactJs and NodeJs to sell crop produce online, book crop storage facilities and logistics services.

TECHNICAL SKILLS

-   **Programming Languages:** Python, Javascript, R, SQL
-   **Data Analysis:** Pandas, Numpy, R-Markdown, Matlplotlib, Seaborn, Tableau