

# Sahil Bajaj

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## TECHNICAL SKILLS

**Languages:** Python, PL/SQL, C, C++, Java, Assembly, Pyspark.

**Tools:** MATLAB, Jupyter Notebook, MS Excel, Spark, MySQL Workbench, Tableau.

**Operating Systems:** MacOS, Windows, Linux.

**Certifications:** Microsoft Certified Azure Data Fundamentals, Udemy: 2020 Complete Python Bootcamp

## COURSEWORK

**Data Science:** Data Mining, Database Systems, Linear Algebra, Calculus I, II, III, Probability and Statistics.

**Algorithms and Data Structures:** Operating Systems, Programming Languages, Theoretical Concepts, Fundamentals of Software Engineering, Object Oriented Programming, Discrete Structures, Intermediate Programming, Algorithms.

## EDUCATION

**University of Texas at Arlington**

*Bachelors of Science, Computer Science*

GPA: 3.0/4.0

Arlington, Texas

August, 2018 - May, 2022

## PROFESSIONAL EXPERIENCE

**Office of Information Technology**

*Student Technology Assistant, University of Texas at Arlington*

Arlington, Texas

August, 2021 - Present

- Re-imaged and configured Windows devices, completing required updates.
- Completed Autopilot enrollment by adding configured devices to Azure Active Directory.
- Trained and supervised new co-workers.
- Advised clients on pre/post-configuration procedures.

## **EasyRewardz**

*Summer Internship, Big Data Team*

India

June, 2019 – July, 2019

- Developed python scripts to interactively analyze raw client data in a distributed Environment (Apache Spark).
- Provided business insights/profit margins based on client requests.
- Used Spark SQL and DataFrame to optimize data and query processing.
- Used inbuilt python libraries like matplotlib/pandas to provide graphical representation of the manipulated data.
- Design Machine Learning Models using sci-kit learn library.
- Based on the analysis, provided insights and developed scripts giving out predictive analysis affirming financial gain for both the company and the clients with 80% accuracy rate.

## PROJECT WORK

**NBA Basketball Player Position Prediction** (*Python3, Numpy, sci-kit learn library*)

- Developed a classification model, predicting players' position based on their per-game average performance in a year.
- Used train\_test\_split() library, taking 75% as training data and the rest as testing data.
- Applied Linear Support Vector Machine and K-fold Cross Validation Classification methods and obtained an accuracy of 85% with the test set.

**Covid-19 Expenditure Analysis** (*Python3, Matplotlib*)

- Built python scripts to analyze personal shopping trends during the initial stages of Covid-19.
- Used libraries like matplotlib and pandas to generate graphical representation of the maximum and minimum purchases made.

**Car Rental Project** (*PHP 7.0, MySQL 8.0*)

- Developed a Car Rental Website and deployed on a Linux Machine.
- Handled back-end data processing using MySQL and Workbench to handle query processing and data storage.
- Linked the back-end and front-end using built in PHP libraries.

## LEADERSHIP ACTIVITIES

**Apartment and Residence Life**

*Resident Assistant, University of Texas at Arlington*

Arlington, Texas

August, 2019 – October, 2019

- Organized large scale events and managed 500+ students with 100% success rate.
- Worked with a staff of 16 members to facilitate the policies and to create an inclusive community.