# BILAL AYYAS MOMIN

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## PROFILE SUMMARY

- B.E. in Electronics and Telecommunication Engineering from D.Y. Patil's Ramrao Adik Institute of Technology, Navi Mumbai.
- Highly enthusiast about data and passionate for working in field of Data Science and AI.
- Business oriented and possess demonstrated ability to provide valuable data insights via Data Analytics and advanced data-driven methods.
- Skilled in analysing, processing and interpreting large datasets.
- Got hold of Machine Learning algorithms for building powerful models for stated requirements and build solutions.
- Completed an end to end Data Science project based on regression problem statement (https://bike-price.herokuapp.com/).
- Completed a project based on data collection, data processing and building a Machine Learning model called "Speaker Normalization using Machine Learning".

## EXPERIENCE

- **FREELANCING:**
  1. Built a Twitter scraper to scrape the text data from the tweets which can be used to collect data for sentiment analysis in stock price prediction. Automated the entire scraping process by integrating it with mongoDB
  2. Created Reddit scraper to collect post data.
  3. Created LinkedIn scraper to collect the details about job openings.
- Worked as Python/Machine Learning Developer at Codemarket from December 2020 to February 2021.

## EDUCATION

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|---|---|---|---|---|
| BE | August 2020 | Department of Electronics and Telecommunications | Ramrao Adik Institute of Technology, Nerul | 6.74 |
| Class XII | Feb 2016 | HSC | RADAV, Bhandup | 54.66 |
| Class X | March 2014 | SSC | Queen Mary's High School & Jr. College, Mumbra | 83.40 |

## TECHNICAL & BUSINESS PROFICIENCIES

**Technical:**

- Successfully completed the requirements to be recognized as a Microsoft Technology Associate for "Introduction to Programming using Python" certified by Microsoft in the year 2017-18.

- Completed a course “Understanding and Visualizing Data with Python” by University of Michigan from Coursera.
- Kaggle Micro-Courses of “Intermediate Machine Learning”,” Deep Learning”,” NLP”
- Operating System: Windows, Linux

**Programming Skills and Knowledge:**

- Python Programming
- Data Analysis and Data Visualization
- Machine Learning
- Natural Language Processing(NLP)
- Web Scraping
- Databases: MongoDB
- Web Framework: Django
- AWS – Fargate, AWS appsync

## PROJECTS

- **Project Title:** Used Bike Price Predictor (https://bike-price.herokuapp.com/)
  **Organisation:** Learning purpose **Platform**
  **Used:** Python, HTML, CSS
  **Contribution:** Completely built by me.
  **Description:** The aim of the project is to build a web app that will predict the price of the used bike based on the conditions like bike model, location, distance driven, year etc. The project includes the steps like data collection by web scraping, data cleaning and pre-processing, data analysis, model building, optimising the model and deployment on Heroku (PaaS). It also includes the use of Census data to convert the data in required format. The webpage content is build using HTML5 and CSS bootstrap.

- **Project Title:** Speaker Normalization Using Machine Learning
  **Organisation:** Ramrao Adik Institute of Technology
  **Platform Used:** Python
  **Contribution:** Analysis and Coding
  **Description:** In this project we have learned and implemented the concepts of Signal processing and Machine Learning using Python. Libraries like Numpy, Pandas, Scipy and other visualization libraries are used. Four speakers from Arctic database was used to create the training and validation datasets. The main aim behind the project was to showcase that the inter-speaker variance is lesser as compared to inter-speech variance which was obtained by building a model using Autoencoder.
- **Project Title:** Smart Vehicle System
  **Organisation:** ATS Leaning Solutions
  **Platform Used:** Raspberry Pi and Python
  **Contribution:** Hardware implementation and Coding

**Description:** The main aim behind this project was to build a Smart Vehicle System to ensure safe parking of cars and maintain the security of the vehicle when parked using the applications of Internet of Things (IoT) technology. Use of different sensors such as Proximity sensor, IR sensor etc were implemented on the car surface. The Raspberry Pi 3 module was installed on the car which was programmed to monitor the activities and notify the owner through an application called Blynk.

## EXTRA CURRICULAR ACHIEVEMENTS

- **Event Organiser** at an event "**MINUTE TO WIN IT**" during WHIZION 2017 which had been awarded as "**THE MOST POPULAR EVENT**".
- **Event Organiser** at an event "**THE GHOST DIARIES**" during IGNITE 2018 which had been awarded as „**"THE BEST EVENT**".
- Participated as a Volunteer in the "Tree Plantation Drive" during 2017-18.
- Paid one day industrial visit at **BSNL**, Yeoor, Thane.
- Paid one day industrial visit at **S&T Workshop**, Byculla.

## ADDITIONAL INFO

- **Nationality:** Indian
- **Languages spoken:** English, Hindi, Urdu, Marathi.
- **Hobbies:** Listening to music, Swimming, Exploring new places, Meeting new people, Bike riding, Gaming, YouTube, Photography.