

## HINAN BILAL

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## EDUCATION & QUALIFICATIONS

**BSc(HONS) Computer Science May 2021** Courses: Data Structures & Algorithms, Database Systems, OOP, Machine Learning, Operating System, Software Engineering, Project Management, Entrepreneurship and Business Management.

Namal Institute, Mianwali

CGPA: 3.027/4

## PROJECTS

**A Tourism Website using Django:** This project had two parts. A Travel Packages Aggregating platform and a Quora like community platform for travelers. Features like caching, Social Auth, Assistance through Emails, Selenium testing, and Rest API were integrated.

**Personality Profiling using Facebook Likes:** This project used Selenium and Scrapy to scrape likes of TourismWebsite users from Facebook. Furthermore, it classified similar personality profiles and assisted users as a packages recommendation system

**Decision Tree, Random Forest & CBR From Scratch:** Algorithms were developed in python without using any ML library. Moreover, tested on the titanic, zoo, and play sports datasets

**IMDB Search Engine:** Implemented multiple data structures and a personalized data structure for a 1 million+ movies dataset.

**ESPN Database of International Cricketers:** Created an ORACLE based database of cricket players from late 1800 till now. Learned to optimize queries and create a scalable database.

**Django E-Commerce Store:** An Ecommerce store with all basic features including manager dashboard, product catalogue and buying options.

**CoronaVirus Prediction Platform:** I used several machine learning models and scraped datasets from the NCOC website. Designed and deployed the website on DigitalOcean.

**R Projects:** World Happiness Report Data Analysis, Australian stock exchange Analysis and Prediction, World Suicide Data Analysis, Titanic Dataset Analysis, Newt Presence Analysis and Prediction, Crime Prediction and Analysis, Bio Technology project.

**Other Small Projects:** CryptoCurrency dashboard, Cross Network Chat Application, Monte Carlo Simulation, Java-based Job Portal for blue-collar workers. Scraped Multiple E-commerce Websites.

## ADDITIONAL EXPERIENCE

**President, Namal Environmental Society**

**2018 – 2019**

- We planted more than 2000 trees.
  - Installed a recycling/ disposing of mechanism.
  - Executed an initiative of making Namal self-sufficient on food by growing and providing mess with organic vegetables.

**Event Manager, Namal Literary and Debating Society**

**2017 – 2018**

- Managed multiple events while being the event manager.

## AWARDS & ACHIEVEMENTS

- **Received ~1000 Impressions on predictcoronavirus.tech :** I deployed a Machine Learning based website that predicted the next 30 days of coronavirus in Pakistan. It successfully predicted the flattening of the curveway before time.
- **Launched Facebook Users Profiling Product as an enterprise solution;** This product was designed for

marketing, political, HR, and tinder-like companies. I launched and sold multiple copies through a website.

- **Led my team in Regional Football Tournaments:** I had the opportunity of leading my team against elite clubs of Punjab.
- **Host for Major Events at Namal.**

## **SKILLS & INTERESTS**

- Python, SQL, Django, REST API, Selenium, CSS, HTML, Javascript, Bootstrap, PHP, Machine Learning.
- Pandas, Matplotlib, R, R Studio, Java, C++, C, LATEX, Scrapy, Digital Ocean.
- Interests: Travel, Technology, Astronomy, Football.

