Dhruva Malik

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EDUCATION

The University of Texas at Arlington | May 2023 — **Maverick Academic Scholar**
B.S. (Honors) in Computer Science — **GPA: 3.96**
Selected Coursework: Object-Oriented Programming, Algorithms and Data Structures, Software Engineering, †Computer Organization Discrete Structures, Linear Algebra, †Programming Languages, Calculus 3, Engineering Probability, Operating Systems — † **: Honors**

Skills: Python, Bash, Java, C/C++, C#, SQL, MongoDB, JavaScript, AWS, GCP, MATLAB, AngularJS, React Native, CSS, HTML, XML, LATEX, Numpy, Pandas, BeautifulSoup, regex, Scikit-learn, Matplotlib, Linux: Ubuntu Raspberry Pi, Android Studio

WORK EXPERIENCE

Innovative Data Intelligence Research Laboratory - *Undergraduate Research Assistant under Dr.Chengkai Li* — August 2020 - Present

ClaimBuster | Funded by HP, Google, and National Science Foundation

- Worked on analyzing the web-extracted data with the **ClaimBuster** algorithm in order to find how the model's efficiency behaves with respect to change in parameters.

Wildfire Project

- Hyper-parameter search for stance-**BERT**. Worked on finding the optimal parameter combination for the ML model.

Bashpole Software, Inc. - *Software Engineering Intern | Remote* — Summer 2021

- Developed advertising landing pages for non-profits organizations, using **JSP** and **Java**.
- Used **AWS RDS** component for online database management.
- Collaboratively worked in creating an **EC2** instance in order to install the server and the database to run tests for the landing pages.
- Assisted in configuration and implementation of tools such as **Gogs, Jenkins, Sonarqube** in AWS EC2 instance.
- Facilitated the hosting of all landing pages on Bashpole's AWS server.

RESEARCH AND PROJECTS

- **Chess Game template:** The user can place queens at any position on a given board and the program will show moves and outcomes. *github.com/dhruvamalik05/DM* — Fall 2019
- **Participated in a hackathon, HACKUNT:** A system design that would allow State Farm to offer discounted home owners/renter's insurance and/or life insurance based off of positive customer behavior. *github.com/hack_unt* — Spring 2020
- **Databases and Visualization:** Comprehensive use of **urllib** module and python to retrieve geo-data from **Google Places API** to make a **sqlite3** file and another **SQL-python** code to read it which in turn produces a **JavaScript** file to visualize it. *github.com/master/geodata* — Spring 2020
- **Price Fluctuations Due to Recession:** University towns have their mean housing prices less effected by recessions. Running **t-tests**, along with extensive use of **SciPy** and **NumPy** to compare the ratio of the mean price of houses in university towns the quarter before the recession starts compared to the recession bottom from Zillow (housing property research data site). *github.com/PriceFluctuations* — Summer 2020
- **Analysis and Interpretation of U.S Cancer Dataset:** Using official U.S Cancer dataset to analyze how has California's air quality and air pollution impacted the residents (in terms of cancer cases). Visually representing data and calculating what percent of total cancer cases are pertaining to the respiratory problems in the U.S by comprehensive use of **NumPy**, **Matplotlib**, **Seaborn**, and **Pandas**. *github.com/USCancerAnalysis* — Summer 2020
- **Understanding and Predicting Property Maintenance Fines:** To help the City of Detroit solve one of the most pressing problems, blight, and how can we increase blight ticket compliance. Using **Gradient Boosted classifiers** and various analysis techniques finding the best features that could help in predicting whether a given blight ticket will be paid on time. — Fall 2020
- **Trawler:** An **android** app that allows users to take a picture of a fish and identify its species using an ml model. With extensive use of **Firebase API** and **Firebase**, it also provides an encyclopedia of fishes for users to gain knowledge of the species. With the help of **Google Maps API**, the app is able to provide the location of a fish. — Spring 2021

LEADERSHIP EXPERIENCE, HONORS AND ACHIEVEMENTS, EXTRACURRICULARS

- Among the Top Scorers in Introduction to programming class (98.02%), 2019
- Received the Freshman Distinction Roll, 2019 and the Honor Roll, 2020.
- Admitted to UTA Honors College (August 2020 - Present)
- Listed on College of Engineering Dean's List for Fall 2020, Spring 2021
- Integral member of UTA Volunteers and participated in many programs in 2020: attending events such as community food drives, leading campaigns, and organizing events for children such as the Dr. Seuss Party.
- Member of Leadership Honors Program and attended the Spring 2020 Leadership Institute.

CERTIFICATIONS

- **Introduction to Data Science in Python** — May 2020
- **Plotting, Charting Data Representation in Python** — June 2020
- **Applied Machine Learning in Python** — August 2020
- **Using Databases with Python** — May 2020
- **Using Python to Access Web Data** — July 2020
- **Applied Text Mining** — Nov 2020