

# ARHUM AHMAD

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## Summary

Hardworking and reliable individual, skilled in data analysis and software development. Self-directed with experience in collecting, cleaning, and interpreting data sets. Natural problem-solver possessing strong cross-functional understanding of information technology and business processes.

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## Skills

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| <ul style="list-style-type: none"><li>• Statistical and Big Data Analysis</li><li>• Programming Languages: Java, C#, Python, R, C</li><li>• Data Visualization and Presentations</li><li>• Machine Learning: experience with Tensorflow, Pytorch, and Scikit-Learn</li><li>• Data Cleaning</li></ul> | <ul style="list-style-type: none"><li>• Object-Oriented Programming</li><li>• Teamwork and Collaboration</li><li>• Analytical Thinking and Problem Solving</li><li>• Ability to work in a fast-paced agile environment</li><li>• Presentation skills</li></ul> |
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## Education and Training

The University of Toronto | Toronto, ON | 04/2022

**Bachelor of Science:** Statistics

- Minor in Computer Science
- Completed coursework in machine learning, software development and data science

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## Experience

**Software Developer** | Distrotek | 04/2022 -

- Collaborate with a team to create websites for clients.
- Use programming skills to provide best possible product.

**Data Analyst** | Data Glacier | 06/2021 - 10/2021

- Collected, tracked, and reviewed large data sets to find sales trends for companies.
- Deployed machine learning models to the web using flask.
- Analyzed data using R and Python. Developed predictive models using Scikit-Learn.
- Cleaned data in python and visualized using Seaborn.
- With permission, some of my projects from my time there are on my GitHub.

**Treasurer** | UTM Boxing Club | 10/2019 - 05/2021

- Reconciled accounts with statements and invoices on a monthly basis and maintained record accuracy.
- Took a leadership role on the team and implemented strategies to decrease costs while increasing club services.
- Part-time instructor, where I used my communication skills to teach boxing to a class of 8-12 people per week.
- Regularly held fundraising and informational events where I would interact with a large number of students and could advertise the club.
- Collaborated with a member of the Women in Science and Computing society to create a women's only boxing class. The event was a huge success.
- Organized a mental health event to help students relieve stress before exams.
- Sports Club of the Year 2020: our small team was recognized by the student body for our contribution to the improved physical and mental health on campus.

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## Projects

- **Predicting the NBA Playoffs | Deerhacks Hackathon 2022** – Used selenium in python to scrape data from almost 30 years of NBA statistics and developed a logistical regression model to predict the outcomes of NBA Playoff series. After performing data cleaning, I trained the model and achieved almost 80% accuracy on over 100 test cases.
- **What is the Fastest Way to Cook Rice? | School Project 2021** - Conducted experiment with a group of students on the variables which may impact the cook time of rice. I coordinated with my team to gather data and then to create a formal report using visuals and diagrams created in R. Despite the difficulties of coordinating during the pandemic, we had no difficulties communicating and working around time zone differences to create a successful project.
- **Machine Learning to Detect Pairs of Shoes | School Project 2020** - Using PyTorch, a partner and I trained a convolutional neural network over a set of photographs of shoes. With supervised learning, the model is able to see two pictures of shoes and determine whether or not they belong to the same pair.
- **Word Association Between News Headlines | School Project 2020** - A partner and I created an autoencoder in python to read a large list of headlines in string format and form associative connections between them. The model can detect which headlines are similar to one another.
- **Factors Which Affect Fuel Efficiency in Cars | School Project 2020** - A group and I imported mtcars library in R in order to study which variables most affect the fuel efficiency of a vehicle. We tested the predictor variables for collinearity and eliminated variables deemed to have a low impact on the mpg of a vehicle. We then created a regression model from the data and added visuals from the model as well as all other work we did into a formal report.
- **Proportions of Transportation Methods Used by STA304 Students | School Project 2019** - Worked with a group of students to conduct a study on the preferred transportation methods of our fellow classmates. After gathering data, we prepared a formal report and then prepared visuals to present to the class. I took responsibility for the presentation and personally presented our findings to the class.

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## LinkedIn, GitHub, and Data Visualization Portfolio

- <https://www.linkedin.com/in/arhum-ahmad/>
- <https://github.com/ArhumAhmad>
- <https://github.com/ArhumAhmad/DataVisualization>

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## Availability

I am available to work immediately and am willing to relocate.

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## Languages

### English:



Native/ Bilingual

### Urdu:



Professional

### French:



Limited

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## Additional Information

Eager to Improve My French.  
References Available Upon Request.