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Aaditya Watwe

Availability: May 2021 – Dec. 2021

https://github.com/WatweA
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Education

Northeastern University – Boston, MA *Sept. 2018 – Present*
Khoury College of Computer Sciences **Graduation Date: May 2022**
Candidate for Bachelor of Science in Computer Science **Current GPA: 3.956/4.000**

Relevant Coursework: Artificial Intelligence, Object-Oriented Design, Machine Learning and Data Mining I, Software Development, Algorithms and Data, Natural Language Processing, Database Design, Comp. Systems, Foundations of Data Science, Mathematics of Data Models, Info. Visualization for Business, Theory of Comp., Embedded Design, Discrete Structures, Comp. Sci. Fundamentals I & II

Recognition: **Dean's List Scholar** (*Fall 2018 – present*), **Honors Program** (*Spring 2019 – present*)

Involvement: International Relations Council member (*Fall 2018 – present*), UNA-USA (*Spring 2018 – present*)

Skills

Languages: Python, Java, C and C++, R, SQL, Bash scripting, JavaScript, HTLM, CSS
Software: Git, Jupyter, Tableau, IntelliJ, PyCharm, Visual Studio Code, TensorFlow, SSH, Vim, MS Office

Experience

Quantitative Developer Intern at UBS – Chicago, IL *Jun. 2020 – Dec. 2020*

- Developed and implemented a novel foreign currency trading indicator which integrates machine-learning, time-series analysis, cross-sectional analysis, and statistical modeling – resulting in 4.5% increase in annualized return and 40% reduction in drawdowns versus benchmark – using R language and SQL Server
- Created optimized R-language libraries for generic time-series data munging, automating the generation of excel reports for series of returns, and for applying given machine-learning algorithms over time-series data with rolling training and testing windows
- Designed a full-stack web-application for the fixed-income team to record UBS analyst projections and projected asset performance using Python, SQL Server, Flask, JavaScript, JQuery, HTLM and CSS

Projects

Sectionwise Song Classification *Apr. 2020 – May 2020*

- *Languages and Software*: Python, Jupyter, Git, Scikit-learn, Keras (TensorFlow)
- Created a novel lyrics classification method to sort web-scraped lyrics into one of four genres based on individually classifying each section of a song and choosing the genre with the greatest vote

US Wage Data Analysis *Apr. 2020 – May 2020*

- *Languages and Software*: Python, Jupyter, Git, Scikit-learn, Keras (TensorFlow)
- Constructed a neural network regressor to predict wages given demographic data with 0.5488 R^2 value
- Conducted analyses of demographic factors on wages in the US from 2018

Animation Player and Editor *May 2019 – Jun. 2019*

- *Languages and Software*: Java, Java Swing, IntelliJ IDE, Junit testing
- Designed animator with the following capabilities reads SVG or proprietary format text files, plays animation at desired speed, GUI to edit animation, outputs SVG or text representation of animation

Barbershop DBMS *May 2019 – Jun. 2019*

- *Languages and Software*: Python, MySQL, PyCharm IDE, MySQL Workbench
- Designed relational database and command-line frontend to track employees and customer data, scheduling, and inventory for simple hair salon; anonymous data sourced from local hair salons

Interests and Other

Personal: Karate (*1st degree blackbelt*), personal finance, painting, religion, philosophy and debate
Academic: Deep learning, convolutional neural networks, data science, feature construction and selection
Languages: *Fluent*: English, Marathi; *Conversational*: French, Hindi