

MARCO KUSHTA

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EDUCATION

University of Wisconsin - Madison

BSc in Computer Science

Cumulative GPA: 3.6/4.00

Madison, WI

Jan 2022 – Dec 2023

St. Joseph's University (Transferred to University of Wisconsin – Madison)

BSc in Computer Science

Cumulative GPA: 3.9/4.00

Brooklyn, NY

Jan 2019 – Dec 2021

Awards: Received the Dean's List award at St. Joseph's College for all the semesters in recognition of superior academic achievement

Coursework: Programming, Algorithms, Data Structures, Operating Systems, Computer organization, Assembly Lang, Probability and Statistics, Database Systems, Linear Algebra, Discrete Mathematics, Software Engineering, Computer Communication & Networking, Advanced Programming

ACADEMIC EXPERIENCE

Research project (Under the guidance of Prof. Salim Arfaoui)

Ongoing

Developing predictive analytics to analyze the real estate market and identify investment opportunities, integrating multiple data sources and market factors, while utilizing web scraping and machine learning, including reinforcement learning techniques

- Extracting data from multiple sources using Python's libraries: real estate prices (e.g., National Association of Realtors, Zillow), Covid-19 data (e.g., covid cases through cdc.gov) and mobility data (e.g., Mobility Reports by Google)
- Assembling additional static data to inform analysis including job and population growth, major employers by area (e.g., bls.gov) and percentage of renters by area (e.g., Census.gov)
- Preparing data for analysis through Pandas library by using data cleansing (e.g., outlier detection), data filling for missing values and variable creation (e.g., through transformations)
- Identifying potential predictors of real estate prices through data analysis, consultations with professors and research papers and articles on real estate market
- Building ML (e.g., XGBoost) and DL models (e.g., Long Short-Term Memory networks using Keras) to predict real estate prices using Python's Scikit-learn library and TensorFlow, following standard train/validation/test techniques, as well as leveraging reinforcement learning algorithms to optimize investment strategies.
- Creating dashboards in Tableau to visualize output (e.g., scatter plots, line charts, heat maps) and help identify potential investment opportunities

PROFESSIONAL EXPERIENCE

Smartwork (Created under the supervision of Deloitte Albania)

Tirana, Albania

Programming Intern

Oct-Dec 2018

- Led testing for migration of files and applications to an updated version of a web application platform (Liferay), including identification of required enhancements to Java code to increase efficiency and minimize errors when scaled
- Incorporated feedback in code enhancements through analysis of reported bugs/inefficiencies and client interactions

TECHNICAL SKILLS

- Python, Java, C++, R, SQL, JavaScript, Node.js, CSS/HTML, Junit, Scikit-learn, TensorFlow, XGBoost, Logistic Regression, Decision Trees, K-nearest neighbors, Linux, BASH, Git, Tableau, Microsoft Office (Excel, PowerPoint, Word), VIM