Abdul Choudhry

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EDUCATION

UC BERKELEY

BA in Legal Studies,
Data Science Minor
+ Certificate in Entrepreneurship & Technology (Berkeley SCET)
Expected: Dec 2022 | Berkeley, CA

JOHN SWETT HIGH SCHOOL

Aug 2014 - June 2018 | Crockett, CA
Valedictorian

SKILLS

PROGRAMMING

Python:
Pandas • NumPy • Selenium
• BeautifulSoup • ElementTree
• Datetime • Matplotlib • SciPy
• Seaborn • Scikit-Learn
Proficient:
Python • Jupyter • LaTeX• HTML • XML
Familiar:
Java • JavaScript • SQL • DITA
Tools:
• PyCharm • IntelliJ • Jupyter
• Git • Jenkins • Cron
• Sublime • Eclipse • Slack
• Unix Command Line
• Now Platform

TECHNICAL

Data:
• Modeling • Visualization
• Engineering • Analysis

COURSEWORK

COMPUTER SCIENCE

• Data, Prediction & Law
• Foundations of Data Science
• Data Structures & Algorithms
• Introduction to Algorithmic Thinking
• Computational Structures in Data Science
• Principles & Techniques of Data Science
• Computational Techniques in Physics

BUSINESS & STEM

• Project Management
• Engineering Economics
• Multivariable Calculus
• Linear Algebra & Differential Equations
• Probability for Data Science
• Physics for Scientists and Engineers I & II

WORK EXPERIENCE

SERVICENOW, INC. | Software Development Intern

May 2021 - August 2021 | Rodeo, CA

- **Implemented** a **fully automated** content publishing prototype for one of the product content organization's 2021 **key project initiatives** from **scratch** with a **small team** of three **under 12 weeks**, approximately saving **890 hours of work per year.**
- **Utilized Python** to **develop** scheduling & automation scripts that **detect & fix** scheduling conflicts in order to **automatically build** product documentation content through preexisting **Jenkins jobs.**
- **Collaborated** closely with lead engineer, manager, and summer mentor to achieve **key project deliverables weekly.**
- **Presented** final prototype **demos** in front of ServiceNow's **senior directors and VPs.**

TECHNICAL PROJECTS

PREDICTIVE POLICING | Machine Learning

February 2022 - March 2022 | Berkeley, CA

- **Applied** geospatial data analysis techniques in **Python** using historical policing data in order to **predict the number of crimes** per neighborhood in San Francisco.
- **Implemented** folium & choropleth maps to visualize crime trends and **achieved** an overall **97%** logistic regression model training accuracy **under four weeks.**

MODELING AND PREDICTING COVID-19 | Machine Learning

April 2020 - June 2020 | Berkeley, CA

- **Applied data cleaning, exploratory data analysis, and time series analysis techniques** in **Python** with a **team of undergraduates** on public COVID-19 datasets.
- **Developed** a **feature engineering pipeline** by using **Lasso cross-validation** to select best **COVID-19 features** to be used in the **machine learning modeling and prediction** process.
- **Implemented** machine learning algorithms including **logistic regression, decision trees, and random forests** to **predict** the social vulnerability of each county in the US.
- **Achieved** an **overall** logistic regression model training **accuracy of 96%** with selected COVID-19 features.

EMAIL AND MOVIE CLASSIFIERS | Classification

January 2020 - April 2020 | Berkeley, CA

- **Created** a logistic regression model to **classify** emails as either spam or non-spam.
- **Increased** model's training accuracy to **94%** by using **cross-validation** and performing **exploratory data analysis** to choose best features.
- **Built** a **K-nearest-neighbors** classifier in **Python** that guesses whether a movie is a romance or action film, with a **93% accuracy rate.**

MODELING DARK MATTER | Undergraduate Research Intern

UndergradLab at Berkeley
Aug 2018 - Dec 2018 | Berkeley, CA

- Used **Python** to **design and develop** a physics research project from **scratch** with a **team of undergraduates** to create mathematical models and **examine how** dark matter affects the rotation curves of spiral galaxies.