Leo Ding

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Education

September 2020 - Present (Expected May 2023)
New York University - B.A. in Computer Science and Data Science (GPA: 3.90)
Relevant Coursework: Processing Big Data for Analytics Applications, Data Management and Analysis, Probability and Statistics, Basic Algorithms

Projects

- Coffee Shop (Docker, Golang, SQL, AWS, HTML, CSS, JavaScript)
    - **Golang** handled **password** and **session authentication**, HTTP request procensing, and **PostgreSQL** manipulation
    - **Docker** used to containerize components and allow for communication
    - Hosted on AWS (**Elastic Beanstalk** and **Relational Database Service**)
    - **JavaScript** used to send HTTP requests and update frontend elements
- Coin Flip (Docker, Golang, SQL)
    - Used **Docker Compose** to link frontend, backend, and database containers
    - **Golang** backend handled HTTP requests and **PostgreSQL** communication
- Soccer Analytics (Java, SQL, Scala)
    - Analyzed a decade worth of data from three top European leagues
    - Classified winners and losers using **Logistic Regression**
    - Grouped potential skill difference using **K-Means**
- Spam Classifier (Python)
    - Determined word importance in SMS messages using **TfidfVectorizer**
    - Classified spam messages using a **Logistic Regression** model
- Movie Ratings Analysis (Python)
    - Reduced features for analysis using **Principal Component Analysis**
    - Evaluated relationships between movies using **Multiple Linear Regression**

Technical Skills

Fluent: Python
Proficient: R, Java, PostgreSQL
Familiar: Golang, Docker, HDFS, MapReduce, Hive, Impala, Spark, HTML, CSS, JavaScript

Experience

Data Science Lead - NASA Student Payload Opportunity with Citizen Science
August 2020 - December 2020

- Collaborated with university students from USC, UCLA, and UC Berkeley
- Team proposed an automated experiment regarding virulence and antibiotic resistance in E. coli in microgravity environments
- Determined **data collection and analysis needs** for proposed project