Rithvin Koneru

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Education

University of Maryland College Park, MD

Bachelor's of Science in Computer Science(Data Science), Minor in Business, GPA: 3.7 *Aug. 2021 – Dec. 2024*

–Relevant Courses: Machine Learning, AR/VR Computer Graphics(Spring 2024), Data Science, Algorithms, Data Structures, Statistics, Object-Oriented Design, Operating Systems, Linear Algebra, Calculus I and II

Experience

IT Software Engineering Co-Op June 2023 – Present

UPS(United Parcel Service) *Parsippany, NJ*

- Developing software to migrate UPS legacy payroll systems to Google Cloud Platform
- Using cloud computing and SAS application tools such as BigQuery, GCE, and Cloud Code
- Automating data creation and testing process for performance/integration E2E testing of the application by developing Java-based tools using testing APIs and frameworks (TestNG, Selenium, Swing, JMeter)
- Transforming testing data of the new payroll system into PowerBI reports sourced from Azure DevOps

Undergraduate Research Assistant Jan. 2022 – May 2022

University of Maryland *College Park, MD*

- Developed Python scripts for the Worldwide LHC Computing Grid, a particle accelerator simulation, to manage output data
- Interpreted accuracy trends from scripts across simulations to adjust and improve machine runs
- Improved initial model by 50% through utilization of developed Python scripts
- Programmed within Python-driven notebooks to study, organize, and present incoming simulation data using NumPy, Pandas, and Matplotlib libraries

BigThinkAI Student Organization Member Sep. 2021 – Sep. 2022

Pyoneer Track: Python and AI Development Focus *College Park, MD*

- Strengthened expertise in Python development and AI concepts such as classification, regression, and statistical tests
- Completed guided weekly assignments on Python data analysis and AI-based algorithmic structures
- Created and presented a supervised machine learning project at end of each semester in Google Colab
- Discussed real-world trends, tools, and best practices in AI/ML development
- Communicated project insights by presenting my AI projects to the organization and its leadership

Projects

Predictive AI Model for Heart Failure | *Python, sklearn, NumPy, Pandas, Seaborn* Aug. 2023

- Trained scikit-learn regression and tree-based AI models which read and manage inputted patient health data
- Provides a prediction as to whether they will be prone to heart failure and mortality through mean error calculations of data

UPS Hackathon Project | *Python, Google Cloud, SQL, Figma, Git, GitHub* July 2023

- Developed a mobile app interface solution for third-party UPS vehicle drivers to register their personal vehicles and receive assigned packages for delivery
- Packages are allocated based on a developed assignment algorithm in Python and SQL queries of driver, vehicle, and package data on Google Cloud Platform
- Presented solution within Cloud Computing category to judges and UPS executives

Technical Skills

Languages: Python, Java, C, R, Ruby, OCaml
ML Tools: scikit-learn APIs, Google Colab/Jupyter Notebooks, Generative AI(Vertex AI)
Data Analysis Tools: SQL, NumPy, Pandas, Matplotlib, Microsoft PowerBI, R, MATLAB
Developer Tools: Git, Agile Methodologies, UNIX/Linux, GitHub, Azure DevOps
Platforms/IDE: GCP(Google Cloud Platform), Visual Studio Code, Windows, MacOS, PyCharm, MS Office