

SEERSHIKA KAKURU

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Education

Rutgers University

Bachelor's Degree in Computer Science

Cumulative GPA: 4.0/4.0

Sep. 2020 – Jan. 2024

New Brunswick, New Jersey

Dean's List in All Semesters

Relevant Coursework

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|--|-------------------------------------|---|------------------------------------|
| • Intro to Computer Science using Java | • Computer Applications and Systems | • Principles of Information and Data Management | • Data Management for Data Science |
| • Data Structures | • Computer Architecture | • Design and Analysis of Computer Algorithms | • Introduction to Data Science |
| • Discrete Structures I | • Software Methodology | | |
| • Discrete Structures II | • Linear Optimization | | |

Key Skills

Programming Languages: Python, Java, C, MySQL, T-SQL

Tools/Technologies: HTML, CSS, MySQL Workbench, Microsoft SQL Server Management Studio, SQLite, Eclipse, IntelliJ, Visual Studio Code, JupyterLab, Android Studio, PyCharm

Data Science Specific Tools: Scikit-learn, Pandas, Matplotlib, Seaborn, Numpy, Natural Language Processing Kit

Computer Skills: Adobe Acrobat, MS Word, MS PowerPoint, MS Excel, Google Suite, Asana

Soft Skills: Hardworking, Willingness/Eagerness to Learn, Accountability, Problem Solving, Organization, Punctuality

Notable Projects

Twitter Data Analysis Project | *Python, JupyterLab*

- Executed a project in which multiple data science tools were utilized to analyze range of emotions, hope, controversy, and vagueness that are part of former US president Trump's tweets.
- Employed advanced data science techniques to perform sentiment analysis, explore underlying patterns and trends, and gain valuable insights about the tweet data.
- Concepts: Exploratory Data Analysis, Data Visualization, Natural Language Processing, Principal Component Analysis

RU Café Android Application | *Java, Android Studio*

- Developed software in Android that simulates the functionality of Rutgers University's Café services.
- Utilized different Android components and UI features such as Activities, Toast, AlertDialog, ImageView, Spinner, ListView, and RecyclerView to design an interactive user interface that allows users to order different types of donuts and coffee, review the items ordered, add and remove items from ordering basket, place orders, review all orders placed, cancel orders, etc.
- Concepts: Java, Object-Oriented Programming, Software Development

Online Auction System | *HTML, MySQL, Java, JavaScript, JDBC, Tomcat Server, MySQL Workbench*

- Designed a relational database system to support the operations of an online auction system.
- Implemented online auction web application that includes several dashboards and role-specific operations for users, customer representatives, and managers.
- Concepts: Conceptual Modeling (ER diagrams), Schema Design, Relational Database Management System Implementation, Web Application Development

Future House Prices Predictor | *Python, JupyterLab*

- Trained univariate and multivariate linear regression machine learning models that are capable of predicting house prices based on certain input features using available past housing data.
- Developed iterative gradient descent algorithms that minimize loss functions and determine best fitting models.
- Concepts: Feature Engineering, Supervised Machine Learning, Linear Regression, Gradient Descent, Model Optimization

Image Clustering Machine Learning Project | *Python, JupyterLab*

- Implemented unsupervised machine learning methods such as k-means to cluster a repository of 1700+ low resolution images of handwritten digits from the sklearn package into groups of similar digits.
- Concepts: Unsupervised Machine learning Methods, K-means Clustering

Work Experience

Accommodation Assistant

January 2023 – January 2024

Rutgers Access and Disability Resources

New Brunswick, New Jersey

- Prepared electronic documents as per specific technical requirements utilizing Adobe Acrobat and Microsoft Office tools.
- Worked with other universities and platforms such as Oxford University Press, John Hopkins University Press, North Carolina University Press, Yale University Press, Bookshare, Access Text Network, and many others to acquire books and resources with the desired features.
- Acquired, compiled and curated accommodation documentation for all future uses and references.