

# SAROJ KAPALI

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## EDUCATION

University of Houston

B.S. in Computer Science, Minor in Mathematics

December 2023

Honors: cum laude(GPA:3.7/4.0) | Dean's List

## EXPERIENCE

Palm Foods LLC | *Houston, TX*

July 2019 - December 2021

Data Analyst (MYSQL, Excel, Python, Tableau)

- Led comprehensive analysis of transactional data covering sales, inventory, marketing campaigns, & operational efficiency at Palm Foods LLC, managing over 10,000 data entries monthly with MYSQL, Excel, and Python
- Evaluated past sales data, identified trends, and forecasted future sales to optimize sales strategies, including product performance, pricing, promotions, and seasonal trends, driving a 15% revenue increase quarterly
- Utilized Tableau to design dynamic and user-friendly interactive dashboards, leading to a 25% reduction in data analysis time and enhanced accessibility for stakeholders, with dashboard views exceeding 500 per month

## RESEARCH AND PROJECTS

Full-Stack Web Developer - Flask Application Project (Python) - [GitHub](#)

February 2023

- Led a cross-functional team to develop a Flask-based fuel rate prediction application, integrating front-end, back-end, and database, achieving code coverage above 90%
- Implemented user-centric features like client login, registration, profile management, and dynamic fuel quote calculations, resulting in a 15% increase in user engagement and a 20% reduction in fuel quote processing time

Wine Quality Prediction (R)

October 2022 - December 2022

- Coordinated a collaborative effort to develop a predictive model in R for wine quality assessment, achieving a remarkable 94% accuracy improvement using KNN and SVM algorithms for data analysis and model evaluation
- Ensured wine quality predictions by eliminating biases and personal preferences, thereby enhancing the credibility and reliability of the model's outputs, resulting in a 10% increase in prediction accuracy

3D Runner Game (Unity) - GitHub  
2023

August 2023 – December

- Crafted and optimized a 3D Unity runner game, investing over 100 hours to implement key features including character movement, obstacle detection, scoring systems, power-ups, and item collection using Unity scripting
- Collaborated seamlessly with a multidisciplinary team of artists and designers to bring the game concept to life, emphasizing strong communication and teamwork skills

## TECHNICAL SKILLS

Algorithms:	Machine learning, Neural Networks, Deep Learning, Bayesian Learning, Optimization, Prediction, Linear Modeling, Clustering, Classification, Statistical Modeling, NLP
Programming Languages:	Python, R, C#, C, C++, HTML, CSS, JavaScript, Java, OOP
Web Development:	MongoDB, Express.js, React.js, Node.js
Databases:	SQL, MySQL, SQL Server, PostgreSQL
Data Visualization Libs:	Matplotlib, Seaborn, Plotly, NumPy, SciPy, Pandas
ML Frameworks:	Scikit-Learn
Version Control Tool:	Git, GitHub Desktop
Other Software & Tools:	Microsoft Office Suite, RStudio, Visual Studio Code, Eclipse, Adobe Photoshop, Jupyter Notebook, PyCharm, Unity 3D, GitHub, Putty, Flask, Tableau, Paraview, PowerBI

## CERTIFICATIONS & BOOTCAMPS

- **Hewlett Packard Enterprise Data Science Institute:**  
**Micro-Credential Badge in Data Science**
  - Data Visualization using Paraview & Tableau
  - Scientific Programming with Python
  - Introduction to Machine Learning
  - Principles of Data Management
- **Broadway MERN Stack Web Development Training Program**
- **Bootcamps:**
  - Takeo Data Scientist Bootcamp
  - Takeo Front-End Bootcamp
  - The complete SQL Bootcamp