Radhakrishna Vempati

github.com/KrishnaV04 | linkedin.com/in/radhakrishna

Education

University of California, Irvine 4.0 GPA

B.S. in Computer Science *September 2022 – Expected June 2025*

- **Selected Courses:** Machine Learning and Data-Mining, Database and Web App, Intermediate Python Programming, Data Management, Data Structure, Programming in C/C++, Computer Organization
- **Dean's Honors List**

Experience

Software Engineering Intern June 2023 – September 2023

GhangorCloud *San Jose, CA*

- Configured MongoDB for the project to define the database schema and actively worked in the creation of the database before importing data
- Contributed to the design and development of a webpage that enables employees to automate mailing clients about renewing the business model
- Worked on Licensing Design Requirements and Specification Documentations for GhangorCloud's flagship products

Projects

ML Diabetes Readmission Predictor | *Python, Git* March 2023 – June 2023

- Preprocessed the Diabetes 130-US Hospitals dataset by employing encoding techniques, such as OneHotEncoding, Feature Hashing, and Ordinal Encoding
- Implemented advanced machine learning models, including Random Forests, FeedForward Neural Networks, and Logistic Regression to preprocessed dataset
- Experimented on model hyperparameters through visualization, evaluating accuracies and to achieve strong predictions of patient readmission probabilities

IoT Device, Project Farmoid | *AWS, C++, postgresql, Git* December 2021 – June 2022

- Designed a robust and effective prototype by experimenting with various designs to reduce the product's size and ensure long-term durability
- Developed code to enable network connectivity between the IoT device and mobile phone application, exploring various technologies including AWS IoT Core
- Achieved recognition as Uber Global Hackathon finalists and secured 1st place in STEMist Hackathon for our IoT device prototype and design

Network Automation Scripts | *Java, Python, R* May 2021, June 2022

- Constructed network automation scripts through Python and Java for a global enterprise to assist with migration
- Efficiently generated network schemas and IP subnets, saving hours of manual effort to create the schemas
- Automated network device configurations by constructing instructions for IP networks through writing configuration code as applicable to each IP subnet/space

Unhealthy Air Quality | *Python* September 2022 - October 2022

- Developed code using PurpleAir's API to detect unhealthy AQI exceeding user-defined thresholds at any location within the country
- Utilized Nominatim API to retrieve accurate coordinates within a specified radius for identifying and displaying locations with unhealthy air quality
- Integrated both above APIs together, generating comprehensive outputs based on user inputs such as coord location, radius, number of locations to display, and AQI threshold, providing specific air quality output report

Technical Skills

Languages: Java, Python, C, C++, SQL, Swift, JavaScript, HTML
Developer Tools: Github, VS Code, PyCharm, Eclipse, AWS Console, Docker
Libraries/Frameworks: Pandas, NumPy, Matplotlib, OpenCV, TensorFlow, Git