Venkata Siva Sai Kumar Palisetti

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Objective

A passionate programmer and software engineering Master student with strong foundation in programming languages, problem solving and technical tools. Reliable with deadlines, organizes and always motivated the team by creating a positive environment.

Skills

BACK-END DEVELOPMENT: Java, Python, Node JS

DATABASE MANAGEMENT: Firebase, SQL, MongoDB, PostgreSQL

CLOUD PLATFORMS: Amazon Web Services EC2, Google Cloud Platform

FRAMEWORKS & LIBRARIES: TensorFlow, Keras, PyTorch, Scikit-Learn, XGBoost, Django

FRONT-END DEVELOPMENT: React JS, JavaScript, HTML, CSS

DEPLOYMENT & VERSION CONTROL TOOLS: Docker, Flask, Heroku, Vercel, Git, Github

Education

Blekinge Tekniska Högskola *Aug 2023 – present*
MS in Software Engineering

Blekinge Tekniska Högskola *Aug 2021 – October 2022*
BS in Computer Science

Jawaharlal Nehru Technological University *Aug 2018 – Jul 2021*
BS in Computer Science

Experience

Data science Intern *Anantapur, India*
Andhra Pradesh State Skill Development Corporation *Apr 2021 – Aug 2021*

- Analyzed and processed local government datasets to support data-driven decision-making for public sector projects.
- Applied data preprocessing techniques, including data cleaning, normalization, and transformation, to improve dataset quality and usability.
- Conducted exploratory data analysis (EDA) to uncover trends, patterns, and actionable insights to aid local government planning.
- Utilized Python libraries such as Pandas, NumPy, and Matplotlib to manage and visualize complex datasets.

Projects

Sentiment analysis prediction *2024*

- Developed a web-based sentiment analysis application using Python, Flask API, and Anaconda, achieving accurate positive/negative emotion predictions through XGBoost and Random Forest algorithms.
- Applied data pre-processing techniques (tokenization, stop word removal) and conducted exploratory data analysis (EDA) to enhance model performance and feature selection.
- Designed and deployed a responsive front-end with HTML and CSS, delivering a seamless user experience through Flask API integration.

Home Assistant Integration *2024*

- Developed device triggers and device conditions for the Steam integration in Home Assistant, using Python

to enhance automation capabilities and improve user experience.

- Conducted end-to-end testing to ensure the integration's functionality, stability, and performance, identifying and resolving issues during development.
- Refactored code to address code smells and improve quality, utilizing SonarCloud for automated code reviews, and successfully collaborated within a cross-functional team to deliver the project on time.

CodeQuack *2023*

- Developed an online coding tutorial platform, enabling user registration, login, video uploading, quiz creation, and feedback submission to enhance coding skills.
- Designed and implemented a user-friendly interface for users, educators, and administrators, using JavaScript, ReactJS, and MongoDB to create a seamless learning experience.
- Applied Agile and Lean methodologies for efficient project management, ensuring timely delivery and iterative improvements based on user feedback.

Bank churn prediction using CNN *2023*

- Developed a machine learning model using Convolutional Neural Networks (CNN) to predict customer churn in the banking sector, improving retention strategies.
- Collected, pre-processed, and analyzed a comprehensive dataset of bank customer activity to extract key features for model training.
- Utilized Python, Anaconda, and Kaggle datasets to implement CNN techniques, optimizing model accuracy and performance for churn prediction.

Monitoring VM performance counters *2023*

- Established communication between two Ubuntu EC2 virtual machines (VMs) with default and custom VPC configurations, ensuring network connectivity for performance monitoring.
- Utilized sysbench and stress-ng tools to generate workloads on the VMs, assessing CPU utilization, byte transfer, and network performance.
- Monitored and analyzed VM performance counters, including CPU, network traffic, and byte transfer, to identify and address resource utilization and bottlenecks.

Certifications

- **Data Science Orientation**
  Completed in July 2022
  I completed the Data Science Orientation course on Coursera.

- **Google Cloud Big Data and Machine Learning Fundamentals**
  Completed in October 2022
  I completed the Google Cloud Big Data and Machine Learning Fundamentals course on Coursera.

- **Linux Fundamentals**
  Completed in October 2022
  I completed the Linux Fundamentals course on Coursera.

Publications

Evaluation of Social Messaging platforms Oct 2022

Conducted a user experience evaluation of social messaging platforms (WhatsApp and Telegram) for Bachelor's thesis, June 2022 – September 2022, Karlskrona, Sweden.
Read here