

Vinay Kumar Posina

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EDUCATION:

Master of Science in Data Science

University of Houston-Clear Lake | GPA: 3.81/4.00

Dec 2024

Houston, Texas

Relevant Coursework: Deep Learning, Machine Learning, Big Data Analytics, Data Visualization, Data Mining, Design of Database

Bachelor of Technology in Electrical and Electronics Engineering

Jawaharlal Nehru Technological University | 74%

May 2016

Anantapur, India

SKILLS:

Programming & Scripting: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras), R, Java, JavaScript

Frameworks: Spring, Spring Boot, Node.js, Flask, Django, Angular, Maven

Python Libraries/Machine Learning: Matplotlib, BeautifulSoup, Puppeteer, OpenCV, PyTorch, Stable Diffusion, Deep Learning, Neural Networks, Decision Trees, Ensemble Methods, Gradient Boosting, Support Vector Machines

Database Technologies: SQL, NoSQL, MongoDB, Oracle, PostgreSQL

Statistical & Visualization tools: Minitab, Tableau, D3.JS

Cloud/ Big Data Technologies: AWS (S3, Sage Maker, Lambda, EC2, SNS, SQS, Amazon MQ, RDS), Google cloud, Hadoop (HDFS and Spark), MapReduce

Other: HTML5, CSS, Bootstrap, Jenkins, Docker, Kubernetes, Git, REST API, Postman, Visual Studio code, Pycharm, Linux

Certifications: Google Data Analytics (Coursera), AWS Certified Cloud Practitioner

WORK EXPERIENCE:

University of Houston – Clear Lake

Graduate Teaching Assistant - Python

Houston, Texas

Aug 2023-Present

- **Mentored and supported 130 graduate students** by tutoring them in **Python programming concepts**, ensuring a deeper understanding of complex topics.
- **Led weekly lab sessions**, providing hands-on instruction and troubleshooting code for both individual students and collaborative group projects, fostering a productive learning environment.

Ernst & Young LLP

Technology Consultant

Hyderabad, India

Jan 2022 – Dec 2022

- **Enhanced the Secure Connect Gateway application** (Remote Assist) for Dell Technologies by developing and integrating new APIs using **Java, Spring Boot, MySQL, and Docker**, improving functionality and streamlining remote support services.
- **Designed and implemented APIs** for alarm services to notify, wake-up, or restart services in case of a downtime, enhancing the system's resilience and reliability.
- **Successfully integrated new Dell products**, including PowerEdge servers, into the existing Secure Connect Gateway platform, expanding the range of supported devices and improving overall system capabilities.

Mantra Technologies Private Limited

Software Engineer

Hyderabad, India

May 2018 – Jan 2022

- **Developed the 500apps application** (All-in-one app suite) using Python, Flask, Celery, MySQL, Docker, and AWS services, enabling comprehensive business solutions for users.
- **Built the low-code platform** Appup (Appup.com), allowing users to create and deploy web applications through a drag-and-drop interface, reducing development time by 50%.
- **Designed and implemented key features for CRM applications**, including bulk operations, automations, and workflows, significantly improving user productivity and system efficiency.
- **Created a desktop application** using **Electron.js** to deploy Docker in a local environment for Appup, streamlining the testing process and reducing dependency on cloud resources, leading to more cost-effective local testing.
- **Led web scraping initiatives** using **Puppeteer** and **Beautiful Soup**, extracting large-scale data for analysis and decision-making, contributing to more efficient data-driven insights.

ACADEMIC PROJECTS

Big Data Analysis of GeoTemporal Climate Using MapReduce Techniques

Applied advanced data processing techniques using **MapReduce** to analyze over one million rows of historical climate data, identifying patterns, trends, and anomalies in global temperature records.

Aug 2023

Enhancing Pneumonia Diagnosis Through Deep Learning: CNN and Transfer Learning Techniques

Implementation and Evaluation of **Convolutional Neural Networks** for Accurate Pneumonia Detection in Pediatric Chest X-Rays, Leveraging Techniques Ranging from Custom Model Architectures to Advanced Transfer Learning and Fine Tuning.

Dec 2023

Speech to American Sign language Generation | Deep Learning

Developed a Python-based application using **Whisper AI** and **Stable Diffusion** to convert spoken language into American Sign Language (ASL) with speech recognition and computer vision techniques.

Apr 2024