Kirtimaan Singh

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Summary

Passionate AI/ML engineer with a strong background in deep learning, computer vision, natural language processing, statistics. Skilled in Python, TensorFlow, PyTorch, and various ML libraries. Excellent problem-solving, research, and collaboration abilities. Seeking a challenging role to develop cutting-edge AI solutions.

Technical Skills

Key Expertise: Data Engineering, Deep Learning, Data Visualisation, RDBMS, Linux, Git, Podman TinkerCAD

Deep Learning Frameworks and tools: TensorFlow, PyTorch, Keras, Caffe, Scikit-learn, OpenCV, NLTK

Programming Languages: Python, C++, C, SQL

Education

SRM Institute of Science and Technology — Chennai, India
B.Tech in Computer Science — *Sept 2021 – Jul 2025*

D.A.V. Centenary Public School — Panipat, India
High School/PCM — *Feb 2007 – Jul 2021*

Experience

Data Analyst Intern — June 2023 – Jul 2023
BSES Yamuna Power LTD. — *Delhi, India*

- Developed automated data preprocessing tools capable of handling raw billing address data to segregate components such as flat number, plot, society, and area, in addition to processing various other billing fields.
- Analyzed and processed nearly 200,000 rows of raw address data Implemented fuzzy techniques and RNN models, among other concepts, to automatically sanitize and preprocess the raw data.
- Generated useful insights and visualized them using python libraries

Projects

Computational Analysis on pharmaceutics research — Oct 2023 – Present
Deep Learning Project — *Python, TensorFlow, Statistics, sklearn*

- Led computational analysis in pharmaceutical research, developing tools for faster data preprocessing.
- Applied machine learning, probabilistic, and statistical methods to create neural networks for predictive validation and analysis.
- Implemented DOE concepts and conducted Mann-Whitney U Test and Student's t-test.
- Successfully predicted and optimized tablet formulations for consistent dissolution time, rapid disintegration, and high InVitro drug release.

PV cells efficiency augmentation — Jul 2023 – Oct 2023
Embedded/IOT — *Embedded Systems, Embedded C, Python, CAD*

- The system improves PV panel efficiency using embedded systems and IoT technologies.
- Collects real-time data on temperature, irradiance, and humidity, dynamically adjusts ambient conditions for optimal performance.
- The system dynamically adjusts ambient conditions for optimal performance.
- Supports automated and manual override commands, ensuring flexibility and adaptability.

3D Object Detection Model - Machine Learning — Jan 2023 – Apr 2023
Computer Vision — *Python, OpenCV, YOLO, TensorFlow, Mediapipe*

- Developed an advanced 3D object detection model that constructs real-time 3D bounding boxes around objects.
- The model uniquely operates without the need for LiDAR sensors or stereo cameras, leveraging monocular camera inputs for depth analysis.

Certifications

- Microsoft Azure AI Fundamentals (AI900)
- Microsoft Azure Data Fundamentals (DP900)
- Red Hat Certified System Administrator (RHCSA)
- Microsoft Azure Security, Compliance and Identity Fundamentals (SC900)