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Top Skills

Computer Vision
Python (Programming Language)
Django

Languages

German (Limited Working)
Urdu (Native or Bilingual)
French (Limited Working)
English (Full Professional)

Certifications

Data analysis with python

Advance Machine learning algorithm's

Supervised Machine Learning :Regression and Classification

Hamas Ali Raja

Computer Vision Enthusiast
Islamabad, Islāmābād, Pakistan

Summary

I am a dedicated software engineer currently pursuing a degree in Software Engineering with a strong focus on programming and cutting-edge technologies. My expertise spans several key areas:

Programming Languages:
Proficient in Python, C++, Java, and JavaScript.
Core Competencies:
Solid foundation in Object-Oriented Programming (OOP) and data structures.

Machine Learning Specialization:
I completed Andrew Ng's Machine Learning specialization on Coursera, gaining expertise in various machine learning techniques. This comprehensive course covered supervised learning, including regression and classification, as well as linear and logistic regression, and gradient descent. I also learned about overfitting, underfitting, and regularization using NumPy and Scikit-Learn. Furthermore, I acquired practical skills in building and training neural networks with TensorFlow for multi-class classification, mastering forward and backward propagation. My deep learning proficiency extends to Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), and transfer learning.

I have also completed IBM's Data Analysis with Python course, refining my data handling skills. This program covered data cleaning and preparation using Pandas, NumPy, and SciPy, along with exploratory data analysis and regression model building with Scikit-Learn. These skills enhance my proficiency in machine learning and data analysis.

Web Development:
Built web applications using the Django Python framework with HTML, CSS, JavaScript, and SQLite databases.

Tools and Technologies:
Frameworks and Libraries:
TensorFlow, Scikit-Learn, Pandas, NumPy, Seaborn, Matplotlib, Django, OpenCV.
Programming Languages:
Python, C++, Java, JavaScript.
Additional Skills:
Typing speed greater than 65 WPM.

I am a passionate computer vision enthusiast, continuously expanding my knowledge through hands-on projects. I worked on Object detection, image classification, pose estimation, and image segmentation models.
Projects:
- Car detection and tracking using YOLOv8.
- License plate detection using YOLOv8.
- Face recognition attendance system.
- Hand gesture volume control using mediapipe.
- Car spot detection and counter system (30 FPS).
- Face recognition system in Python using Mediapipe.
- Personal protective equipment detector using YOLOv8.
- AI caption generator web app.
- AI desktop voice assistant.
My passion lies in computer vision, and I am eager to apply my skills and knowledge in a professional setting. I am excited about the opportunity to contribute.

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Education

Capital University of Science & Technology
Bs software engineering , Computer vision · (October 2021 - July 2025)

Royal college of sciences Chakwal
ICS, Computer Science · (August 2019 - July 2021)

Nobel house school system Chakwal
Matric, Computer Science · (August 2016 - March 2019)