ZAFIR ABDULLAH (PWD)

AI Developer

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GitHub LinkedIn LeetCode

PROFESSIONAL SUMMARY

AI Developer with expertise in Machine Learning, Deep Learning, and Computer Vision. Skilled in developing AI-powered applications using Python, TensorFlow, PyTorch, OpenCV, Roboflow, and Ultralytics. Passionate about optimizing model performance and deploying AI solutions using FastAPI, Flask, and Streamlit. Experienced in solving real-world AI challenges and working with cloud-based AI deployments.

SKILLS

Technical Skills

- **Programming Skills:** Python, Javascript, Html, CSS
- **AI & ML Expertise:** Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, and Generative AI.
- **Framework & Libraries:** Numpy, Pandas, Matplotlib, Scipy, Tensorflow, PyTorch, Scikit-Learn, OpenCV, Ultralytics YOLO, Roboflow, CVAT, LabelImg, Supervision, spaCy, NLTK, Langchain, Hugging Face and OpenAI.
- **Databases & Cloud:** PostgreSQL, MongoDB, and Azure Cloud.
- **Deployment & Development:** FastAPI, Flask, Streamlit, Docker
- **Version Control & Tools:** VS Code, Jupyter Notebook, Google Colab, PyCharm, and, Github.

- **Soft Skills**
- Problem Solving
- Critical Thinking
- Team Collaboration

EXPERIENCE

AI Engineer Intern, ITSOLERA Pvt (Feb 2025 – Present)

- Developed AI Resume Screening System using Python, FastAPI, Angular & Azure PostgreSQL..
- Implemented Data Cleaning & Preparation and Machine Learning techniques using NLTK, spaCy, Scikit- learn
- Improved model performance through hyperparameter tuning and dataset preprocessing
- Worked on deploying AI models using Angular Javascript or FastAPI.
- Collaborated with a team to solve real-world AI challenges

Technologies: Python, NLTK, spaCy, Scikit- learn, Angular Javascript, PostgreSQL, Azure

AI and Data Science Intern, S.M.I.T (Nov 2024 – Present)

- Engaged in hands-on projects involving data preprocessing, model development, and evaluation using Python and machine learning libraries.
- Gained expertise in supervised and unsupervised learning techniques, including regression, classification, and clustering.
- Collaborated with a team to apply AI solutions for real-world challenges, focusing on practical applications of deep learning and computer vision.

- Enhanced skills in data analysis, feature engineering, and performance optimization for AI models.

Technologies: Python, Pandas, NumPy, Scikit-Learn, NLTK, OpenAI.

Software Developer, Digital Platform Solutions Company (March 2024 – Sep 2024)

- Led the Development using Python and Odoo framework.
- Designed and implemented a comprehensive ERP solution, streamlining business processes and enhancing Organizational efficiency.
- Built an OMR system using Python and OpenCV to extract valuable information from scanned documents.
- Business Process Model and Notation (BPMN) to design and manage business process using the ProcessMaker platform.
- Web Application Development Using Python, and Streamlit.
  Technologies: Python, Odoo, OpenCV, ProcessMaker, Streamlit

Python Development Intern, Softic Solutions Company (Jan 2024 – March 2024)

- Developed and implemented a POS system to streamline transactions, inventory management, and sales reporting.

Technologies: Python, Django, SQL

EDUCATION

Bachelor of Science (Business and Information Technology)

Virtual University Of Pakistan (Sept 2022 – Present)

CERTIFICATION

- PIAIC AI Developer Certification
- Machine Learning with Python Certification
- Intel Edge AI Certification
- AI For Everyone Certification at deeplearning.ai
- Python for Everybody
- Convolutional Neural Network at deeplearning.ai

PROJECT

- **Floor and Wall Visualizer Design Project**
  Developed a floor visualization system using Perspective Transformation and the MaskFormer-Swin-Large-ADE model for semantic segmentation, enhancing depth accuracy and texture alignment.
  Technologies: Python, OpenCV, MaskFormer
- **Protein Classification Prediction App**
  Built a Streamlit-based app for protein classification using a pre-trained model, integrating network visualization for better interpretability.
  Technologies: Python, Scikit-learn, Streamlit, Machine Learning
- **AI Voice Translator Project**
  Created an AI-powered voice translator that captures speech, translates it, and converts it back to speech using Python and Google APIs.
  Technologies: Python, Google APIs
- **Optical Marks Recognition (OMR) Project**
  Developed an OMR system with OpenCV to detect and process marked answers on scanned forms, ensuring high accuracy.
  Technologies: Python, OpenCV

- **From Image to Audio Story Project**
  Designed a Streamlit app that converts images into descriptive text, generates a short story, and synthesizes it into audio using AI models.
  Technologies: Python, Langchain, OpenAI, Streamlit
- **Automated Surveillance and Vigilance System**
  The Aegis Project is an AI-powered surveillance system for real-time CCTV monitoring, enhancing security through fire detection, weapon-based snatching detection, mob gathering detection, and real-time alerts for Surveillance.
  Technologies: Python, Flask, Streamlit, Ultralytics, Roboflow, Surpervision, OpenCV, Azure

ADDITIONAL INFORMATION

Disability Type: Hearing Impairment (Deafness, Speech Developed Using Hearing Aids)