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PROFILE

AI Engineer with 2+ years of industry experience building end-to-end, production-oriented AI and automation solutions. Hands-on background in developing and deploying AI-powered workflows, RESTful APIs, and internal tools using Python, Transformers, RAG pipelines, and cloud services. Experience spans image classification, NLP, document retrieval, and process automation with a focus on improving productivity, insight generation, and decision-making across teams. Comfortable collaborating with product, data, and domain experts to translate business problems into scalable, reliable technical solutions.

Programming languages:

Python, C/C++, C#, SQL, HTML, CSS, PHP, JavaScript.

Frameworks & Tools:

Transformers, Llama2, Scikit learn, Pandas, NumPy, MySQL, Flask, REST APIs
Django, AWS (S3, EC2, Textract), ETL, Postman, Docker, Git, GitHub,
MATLAB, Tableau, Jupyter Notebook, UiPath, Power Automate, n8n,
PyCharm, Visual Studio Code, Unity 3D.

CAREER HISTORY

Sybros Tech

Feb 2024 – Sept 2024

RPA Developer

- Designed and deployed automation workflows and AI-powered agents using UiPath and Power Automate to handle repetitive business processes for clients in production.
- Managed cloud-based deployments of more than 50 concurrent automations on remote systems, including ongoing monitoring, incident handling, and performance optimisation.
- Developed and maintained integration pipelines and API-driven workflows, ensuring reliable execution, logging, and error handling across multiple environments.
- Contributed to winning and onboarding a new client in KSA by delivering tailored automation solutions, supporting the company's expansion into the Middle East market.

BANYO LTD

Oct 2023 – May 2024

Python Developer

- Developed and maintained scalable Python applications for data extraction, transformation, and automation, with a focus on web scraping using tools such as BeautifulSoup, Selenium, and Scrapy.
- Implemented robust scraping pipelines to gather data from over different websites, ensuring data integrity and compliance with site terms through dynamic request handling.
- Created RESTful APIs using Flask to deliver scraped or processed data to other applications or dashboards.
- Integrated error handling, logging, and retry mechanisms to make data workflows more resilient and production-ready.

Psi-Square

Jun 2023 – Jan 2024

Data Scientist

- Worked on machine learning and NLP projects, including data labelling, model training, and fine-tuning to improve model accuracy on real-world use cases.
- Developed and maintained Python scripts and pipelines for data cleaning, feature engineering, and evaluation, improving the efficiency and reliability of ML workflows.
- Integrated external APIs and internal services to streamline data flow between systems, enabling clean, structured inputs for downstream models and analytics.

- Conducted research and experiments to compare different machine learning and deep learning models, selecting and tuning architectures based on performance, robustness, and deployment constraints.

VOLUNTEERING – Flood Relief Campaign

- Organized a blanket collection drive for flood victims in Sindh
- Successfully gathering around 50 double blanket to support affected families

PROJECTS

- **Brain Tumor Classification via Synthetic Data (MSc Dissertation)**
Developed a deep learning framework combining diffusion models and Vision Transformers (ViT) for brain MRI generation and classification. Applied Pytorch and Hugging Face Diffusers for synthetic data creation, trained classifiers using real and synthetic datasets, and evaluated results via FID, KID, and t-SNE metrics. Strengthened expertise in deep generative models, computer vision, and model evaluation.
- **LocalGPT**
Developed a custom RAG pipeline to convert PDF documents into query able knowledge bases using semantic vector search. Leveraged Instructor Embeddings and ChromaDB for high-quality embedding generation and efficient vector storage. Enhanced information retrieval from long documents, improving understanding and usability for non-technical users.
- **Chat-Bot**
Developed a closed-scope chatbot using GPT-2 transformers as the base model, showcasing expertise in Natural Language Processing (NLP). Implemented data pre-processing techniques, trained the model on a high-performance computing environment, and achieved conversational accuracy of over 85%.
- **Sentimental Analysis**
Developed sentiment analysis for movie reviews using Python within the field of Natural Language Processing. Designed and implemented a sentiment analysis pipeline for classifying movie reviews as positive or negative, leveraging Natural Language Processing.
- **Multi-Model Cat & Dog Classification Oxford IIT Pet**
Designed and trained four CNN-based models: a binary Cat vs Dog classifier, a 12-class Cat breed model, a 25-class Dog breed model, and a hybrid breed classifier. Applied data pre-processing and augmentation to enhance performance. Fine-tuned YOLOv8 for object detection and integrated all models into a Streamlit web app for real-time image uploads and predictions, including class, breed, and bounding boxes.
- **Free Flow Learning – (Bachelors Final Year Project)**
Developed an immersive VR-based educational application for children using Unity 3D and C#, showcasing creativity and problem-solving skills. Developed a VR educational app with three interactive science modules: Bohr Atomic Model, Periodic Table, and Plant Cell. Designed puzzles and quizzes to test knowledge, with a leader board system to track and motivate performance.
- **Weather Forecast Web App**
Developed a real-time weather forecast application using the OpenWeather API, delivering accurate and user friendly data visualisation. Applied front-end development skills in HTML, CSS, JavaScript, and PHP to build an interactive interface.

EDUCATION

Kingston University, London

Sept 2024 – Sept 2025

Masters in Data Science

University of Central Punjab, Lahore

Oct 2019 – Jul 2023

Bachelor of Computer Science (CGPA: 3.27/4.00)

REFERENCES

References available on request.