HISHAM UL HAKEEM A

AIML ENGINEER | AI & ML PESCE
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SUMMARY

AI & ML Engineer with hands-on experience delivering applied machine learning systems across data analysis, computer vision, and natural language processing. Skilled in designing end-to-end, deployment-ready solutions achieving high accuracy and practical impact.

SKILLS

Programming Languages: Python, JavaFX, SQL, HTML, Java (basic proficiency).
Libraries: NumPy, Pandas, Matplotlib, NLTK, Scikit-learn, TensorFlow, Seaborn, Keras, OpenCV.
Core Concepts: Machine Learning, Deep Learning, NLP, Prompt Engineering, Computer Vision.
Frameworks & Tools: Git, MongoDB, Jupyter, VS Code, Eclipse, Google Colab.

EXPERIENCE

Artificial Intelligence Intern, Personify   Remote | May 2025 – July 2025
- Developed a **Convolutional Neural Network (CNN) model** to classify over 100 global landmarks using the Google Landmark v1 dataset, achieving **62% validation accuracy.**
- Engineered an automated preprocessing and label encoding pipeline to automate data handling across categories, optimizing model readiness and training flow.
- Constructed and refined a **ResNet-50 model** with real-time data augmentation using ImageDataGenerator, achieving **87% validation accuracy** across 16 pet-breed classes while resolving class imbalance and improving generalization.

Data Science & Analytics Intern, Opportive   Remote | July 2025 – August 2025
- Boosted user engagement by delivering real-time movie sentiment predictions via an interactive web app, leveraging a team-built **SimpleRNN model** trained on the IMDB dataset and deployed using Streamlit.
- Optimized model accessibility for end-users by converting raw textual inputs into numerical sequences and applying sequence padding and token indexing techniques, collaboratively integrated within a scalable inference pipeline.

PROJECTS

Smart Attendance System | [Project Link]
- Automated real-time student attendance using **SSD**-based **face detection** and **128D ResNet face embeddings,** achieving **84% recognition accuracy** with minimal human involvement.
- Constructed and fine-tuned a **face recognition pipeline** using enrolled image datasets, sustaining stable performance across varying lighting conditions and camera angles.
- Deployed a Flask-based dashboard that reduced manual attendance marking time by **70–80%**, enabling real-time logging, **CSV export**, **proxy prevention**, and efficient system monitoring.

AI Resume Matcher | [Project Link] | [Live Demo]
- Improved job–resume matching accuracy by developing a machine-learning-based resume classification system using Python and **scikit-learn** to **predict relevant job categories** from resume text.
- Refined feature representation for predictions by applying **NLP preprocessing** and **TF-IDF** vectorization using **NLTK** and **spaCy**, resulting in clean, structured input for the model.
- Built an end-to-end resume analysis application by integrating the trained model into a **Flask web application** with resume upload and result visualization.

DermAI | [Project Link]
- Implemented image-based identification of common skin diseases with **73% accuracy** by classifying skin images using a **convolutional neural network** trained on labeled dermatological datasets.
- Improved preliminary skin condition assessment, leading to consistent disease labeling based on learned visual patterns across multiple dermatological categories.
- Enable faster access to medical consultation by enabling **location-based discovery** of nearby doctors, hospitals, and clinics through user-permitted geolocation tracking.

EDUCATION

PES COLLEGE OF ENGINEERING, MANDYA | B.E | Computer Science (AI & ML) | CGPA: 7.5   2022-2026
ST. PHILOMENA'S PU COLLEGE | 12th Grade | PCMC | PERCENTAGE: 84%   2020-2022

CERTIFICATIONS

- **Machine Learning and Human Learning** | UIUC   AUG 2025
- **SQL for Data Science & Problem Solving** | University of California   SEP 2025
- **Interpretable Machine Learning** | Duke University   JUL 2025

ACHIEVEMENTS

- **Secured 2nd place** among 42 teams in Prompt War by collaborating with a teammate to design creative AI prompts under timed constraints.
- **Organized** and **led Prompt War 2.0**, managing **end-to-end event logistics** and **designing** AI prompt-engineering challenges to strengthen participants' practical prompt-writing and problem-solving skills.