

A HISHAM UL HAKEEM

AI ML ENGINEER | AI & ML PESCE
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SUMMARY

AI & ML Engineer with experience in delivering machine learning models and pipelines 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 (foundational knowledge).

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 standardize and automate data ingestion 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 collaboratively developed **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 production inference pipeline.

PROJECTS

Smart Attendance System

- 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

- 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

- 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 initial skin disease screening, leading to consistent disease labeling based on learned visual patterns across multiple dermatological categories.
- Enabled faster access to medical consultation through **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.