HISHAM UL HAKEEM A

AIML ENGINEER | AI & ML PESCE

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SUMMARY

Aspiring AI & ML engineer with a strong drive to innovate and create a meaningful impact through intelligent, data-driven solutions. Committed to continuous learning and solving real-world challenges through AI.

SKILLS

- Programming Languages: Python, C++, JavaFX, HTML, SQL, Java (foundational knowledge).
- Libraries: NumPy, Pandas, Matplotlib, NLTK, Scikit-learn, TensorFlow, Seaborn, Keras, OpenCV.
- Core Concepts: Machine Learning, Deep Learning, NLP, Computer Vision, RAG & Gen AI (intro level).
- Frameworks & Tools: Git, MongoDB, Jupyter, VS Code, Eclipse, Google Colab.
- Soft Skills: Research, Problem Solving, Teamwork, Leadership, Time Management.

EXPERIENCE

Al 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 promising training performance.
- Engineered an automated preprocessing and label encoding pipeline to streamline data handling across multiple categories, improving 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.
- Enhanced 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, ensuring accurate recognition and minimal manual intervention.
- Constructed and fine-tuned a robust face recognition pipeline using enrolled image datasets, delivering consistent accuracy across varying lighting conditions and camera angles.
- Deployed a Flask dashboard that reduced manual attendance marking time by 70–90% with real-time logging, CSV export, proxy prevention, and user-friendly monitoring.

Al Resume Matcher | [Project Link] | [Live Demo]

- Developed an Al-powered tool to evaluate resume and job description compatibility, generating a personalized match score based on semantic content alignment.
- Enhanced job-resume relevance prediction using TF-IDF vectorization and cosine similarity on preprocessed text, leveraging spaCy and NLTK pipelines for tokenization, lemmatization, and noise removal.
- Improved evaluation accuracy by extracting relevant terms from resumes and job descriptions to support content-based comparison.

Weather Prediction | [Project Link] | [Live Demo]

- Delivered ±3°C prediction precision by orchestrating temporal feature synthesis and calibrating RandomForest parameters on Bengaluru and Austin datasets.
- Boosted forecasting consistency across two geographies by harmonizing inconsistent weather formats and encoding event-based anomalies into numeric signals.
- Refined training pipeline by integrating lemmatization workflows and categorical transformation of weather events to boost model generalization.

EDUCATION

•	PES COLLEGE OF ENGINEERING, MANDYA B.E Computer Science (AI & ML) CGPA: 7.6	2022-2026
	ST PHILOMENA'S PLLCOLLEGE 12th Grade PCMC PERCENTAGE : 84%	2020-2022

CERTIFICATIONS

Generative AI & RAG GUVI [Certificate] [Certificate]	MAY 2025
 Use Generative AI for Software Development IBM SkillsBuild [Completion Badge] 	JULY 2025
 Intro to Responsible AI, Large Language Models, & Generative AI [Badge] [Badge] [Badge] 	FEB 2025
Artificial Intelligence for Cybersecurity LinkedIn Learning [Certificate]	II II V 2025

ACHIEVEMENT

Secured 2nd place among 42 teams in Prompt War at PESCE by collaborating with a teammate to design creative AI prompts under timed
constraints.