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

AI 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.

AI Resume Matcher | [[Project Link](#)] **|** [[Live Demo](#)]

- Developed an AI-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 PU COLLEGE |** 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](#)]   JULY 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.