

# 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  $\pm 3^{\circ}\text{C}$  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

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|--|-----------|
| • 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   [ <a href="#">Certificate</a> ]   [ <a href="#">Certificate</a> ]  | MAY 2025  |
| • Use Generative AI for Software Development   IBM SkillsBuild   [ <a href="#">Completion Badge</a> ]   | JULY 2025 |
| • Intro to Responsible AI, Large Language Models, & Generative AI   [ <a href="#">Badge</a> ]   [ <a href="#">Badge</a> ]   [ <a href="#">Badge</a> ] | FEB 2025  |
| • Artificial Intelligence for Cybersecurity   LinkedIn Learning   [ <a href="#">Certificate</a> ]   | 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.