HISHAM UL HAKEEM A

AIML ENGINEER | AI & ML PESCE

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EXPERIENCE

AI Intern – Personify **Remote | May 2025 – Present**

- 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.
- Achieved 87% validation accuracy by fine-tuning a ResNet-50 transfer-learning CNN with on-the-fly data augmentation on 16 pet-breed classes
- Streamlined image preprocessing and augmentation using ImageDataGenerator, effectively addressing class imbalance and enhancing model generalization performance.

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.
- Engineered and trained a face recognition pipeline using enrolled student image datasets, ensuring robust attendance accuracy across diverse lighting and angles.
- Built a minimal Flask dashboard for real-time attendance logs, CSV export, and user-friendly monitoring through intuitive UI controls.

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.
- Implemented text similarity analysis and keyword extraction to enhance accuracy in applicant evaluation.

Google Account Creation Clone | [Project Link]

- Designed and developed a JavaFX-based replica of Google Account creation UI with responsive layout and form validation.
- Integrated event-driven input handling for real-time validation and improved user interactivity

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

- Achieved temperature prediction accuracy within ±2–3 °C using a RandomForestRegressor with engineered time-series features and tuned hyperparameters.
- Processed historical weather data from Bengaluru and Austin, applying feature engineering and trend analysis to enhance model accuracy.

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, Gen AI (intro level) .
- **Frameworks & Tools** : Git, MongoDB, Jupyter, VS Code, Eclipse .
- **Soft Skills** : Research, Problem Solving, Teamwork, Leadership.

EDUCATION

- **PES COLLEGE OF ENGINEERING,MANDYA** 2022-2026
  B.E - COMPUTER SCIENCE (AI & ML) | CGPA – 7.6
- **ST. PHILOMENA'S PU COLLEGE** 2020-2022
  PCMC | GRADE – 84%

ACHIEVEMENT

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

CERTIFICATIONS

- RAG | GUVI MAY 2025
- Generative AI | GUVI MAY 2025