

# MOHAMMED HASEEB AHMED

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**Portfolio:** [mohammedhaseebahmed.vercel.app](https://mohammedhaseebahmed.vercel.app)

## SKILLS

- **Programming Languages:** C, C++, Python, JavaScript, Java.
- **Machine learning & Deep learning:** Tensorflow, Keras, Scikit-learn, PyTorch.
- **Database Management System:** MySQL, MongoDB.
- **Web development:** Streamlit, Flask, React.js, Next.js.
- **Cloud Platforms:** Google Cloud, IBM cloud, HuggingFace.
- **Other Tools:** OpenCV, NumPy, Pandas, TextBlob, Firebase, Clerk, Postman.

## EXPERIENCE

### ● IProtechs, Hyderabad - Machine Learning Intern | (Nov 2024 - Jun 2025)

#### - Blue Hatch – Computer Vision for Shrimp Growth Monitoring:

Developed a **Computer Vision Model** using **PyTorch** to accurately count shrimp post-larvae (PLs), track growth stages, and detect diseases. Designed a robust **preprocessing pipeline** to handle variations in lighting, water clarity, and significantly improving model reliability. Achieved **80% reduction in manual counting errors** and optimized the model for **real-time deployment on edge devices**. Deployed the system on **AWS SageMaker**, ensuring scalable and efficient inference.

#### - Blue Bot – Agentic System for Shrimp Farm Management:

Developed an **AI agent** that retrieves user-specific data from the database, answers queries, and leverages **predictive models** to estimate optimal feed quantity and shrimp growth. Designed an **efficient querying mechanism**, reducing response times by **30%**, and built a **NodeJS API Endpoint** for seamless integration with frontend applications.

### ● Headstarter AI Fellowship | (Aug- Sep 2024)

- Built 5 AI-projects, participated in weekend hackathons and mock Interviews over 7 weeks under the guidance of Developers from Google, Apple, Bloomberg, Meta and other startups.
- The final project was to get a PR accepted from an open-source community (In progress).

## EDUCATION

- B. tech in C.S.E | Malla Reddy Engineering College  
*CGPA: 7.65 | Jul'25*
- XII (Telangana State Board) | Sri Chaitanya Junior College  
*93.5% | 2021*
- X (CBSE) | St. Peter's High School  
*87% | 2019*

## ACADEMIC PROJECTS

### ● Dev-QuizBot

- Created a quiz-generating chatbot using **Generative AI**.
- Incorporated **Retrieval-Augmented Generation (RAG)** to retrieve relevant information for quizzes.
- Deployed the chatbot using **Serverless Architecture on Hugging Face Spaces**.
- Leveraged the **Llama 3 - 8b** model for quiz generation and validation.
- **Tech stack:** Python, Streamlit, Llama 3 - 8b model, Hugging Face Inference API.

- **MNIST Neural Network**
  - Developed a deep learning neural network using **NumPy** to classify handwritten digits.
  - Optimized model performance through **Hyperparameter Tuning** and **model compression**.
  - Achieved **93% accuracy** on the MNIST dataset by focusing on **model optimization** for efficiency.
  - **Tech stack:** Python, NumPy, Pandas, Deep Learning, Neural Networks.
- **Vehicle Classifier**
  - Developed a **Convolutional Neural Network (CNN)** model for vehicle classification.
  - Used **OpenCV** and **TensorFlow** for image processing and model training.
  - Enhanced model performance by applying **Image Augmentation** and improved **Model Generalization** on custom datasets.
  - Deployed the model on **Hugging Face** for seamless integration and accessibility.
  - **Tech stack:** Python, TensorFlow, OpenCV, CNN, Hugging Face Spaces.
- **PantryDish**
  - Developed a pantry management system for inventory tracking and meal planning.
  - Implemented **AI-powered Recipe Suggestions** using the **Llama 3.1 8b model** for generating custom recipes based on available inventory.
  - Integrated **Clerk** for user authentication and **Firebase** for data storage, ensuring secure and reliable data management.
  - **Tech stack:** React.js, Next.js, TypeScript, Llama 3.1 8b model, Clerk, Firebase.
- **Vehicle Classifier 2.0**
  - Enhanced the existing vehicle classification model using **Transfer Learning** with the **EfficientNet-B3** pre-trained model and **ImageNet weights**.
  - Fine-tuned the model on a custom vehicle dataset, achieving **95% accuracy** on the validation set.
  - **Tech stack:** Python, TensorFlow, EfficientNet-B3, Transfer Learning, ImageNet, Convolutional Neural Networks (CNN).

## ACHIEVEMENTS

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- **TCS CodeVita** | (Nov 2024) | International Rank: 3025
- **SMART INDIA HACKATHON** | (Aug 2022)
  - Qualified for the Grand Finale of SIH 2022 Senior Software Edition.

## CERTIFICATIONS

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- **Applied AI** | IBM (Oct 2023) | [view certificate](#)
- **Google Cloud Computing Foundations** | Google Cloud (Oct 2023) | [view certificate](#)
- **Machine Learning** | Stanford University & DeepLearning.AI (Dec 2023) | [view certificate](#)
- **Microsoft Azure Fundamentals** (Feb 2024) | [view certificate](#)
- **Natural Language Processing** | IIT Kharagpur, NPTEL (Apr 2024) | [view certificate](#)
- **Deep Learning** | DeepLearning.AI (Jun 2024) | [view certificate](#)
- **Google Cloud Data Analytics** | (Jun 2024) | [view certificate](#)
- **AWS Certified Machine Learning Engineer – Associate** | (Dec 2025 - Dec 2028) | [view certificate](#)