

# Mohammed Shihass

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## EDUCATION

**B.Tech Computer Science and Engineering**  
MEAEC, KERALA TECHNICAL UNIVERSITY

Perinthalamanna, Kerala | 2019-2023

## EXPERIENCE

**LUMINAR TECHNOLAB** | DATA SCIENCE INTERN

Kochi, Kerala | Jan 2024 –

- Worked on data-driven solutions, leveraging **Python**, **Pandas**, and **SQL** for large-scale data analysis.
- Developed predictive models to analyze trends and improve decision-making.
- Created interactive data visualizations using **Matplotlib** and **Seaborn**, making insights more accessible.
- Assisted in **feature engineering and model evaluation**, improving model performance and reliability.

## PROJECTS

**DIABETIC RETINOPATHY CLASSIFICATION USING RESNET**   
VISION, DATA AUGMENTATION

PYTORCH, RESNET, GPU, COMPUTER

- Built a binary classification model to detect referable vs non-referable diabetic retinopathy.
- Handled severe class imbalance using data augmentation.
- Implemented ResNet for feature extraction and achieved 94.8% accuracy
- Optimized model training using GPU acceleration for faster performance.
- Evaluated using ROC Curve, Precision-Recall, and F1-score.
- Deployed code using Jupyter Notebook & VS Code, with version control via Git.

**BABY CARING AID WITH THE APPLICATION OF ANALYSIS ON LIVE VIDEO** 

- Developed a "Baby Caring Aid" system as a final year project.
- Integrated live video analysis to provide real-time assistance in baby care tasks.
- Leveraged advanced analysis techniques to interpret live video feeds.
- Offered insights and recommendations to caregivers based on video analysis.
- Achieved a notable accuracy score of 0.82.

## SKILLS

**Machine Learning:** Scikit-Learn, TensorFlow, PyTorch, OpenCV, NumPy, Pandas, Matplotlib, Seaborn

**Deep Learning:** ResNet, CNNs, RNNs, Transformers, GANs, LSTMs, Transfer Learning

**Database:** SQL

## CERTIFICATIONS

- **Big Data and Data Science** - NACTET
- **Introduction to Big Data** - Coursera
- **Introduction to Machine Learning** - Coursera