

SOHAM THUMMAR

Phone no.+91 90338 75787

[Email](#)

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[GitHub](#)

[Portfolio](#)

SUMMARY

Engineering student with hands-on experience in **AI, Machine Learning, IoT, and Robotics**. Skilled in Python, C/C++, and MicroPython, with experience deploying models on ESP32, ESP32-CAM, and Raspberry Pi. Passionate about building intelligent systems, automation, and real-time edge computing applications.

TECHNICAL SKILLS

Languages: Python, C, C++, MicroPython

Frameworks & Tools: TensorFlow, Keras, OpenCV, NumPy, Pandas, Matplotlib, Scikit-learn, MySQL, Git, Anaconda

Hardware: ESP32, ESP32-CAM, Raspberry Pi

Domains: Machine Learning, IoT, Embedded Systems, Computer Vision, Automation, Edge Computing

PROJECTS

Iris Species Classification (Logistic Regression) [<link>](#)

- Link: <https://github.com/SOHAM-THUMMAR/OCI-ai-foundation>
- Built a Logistic Regression model to classify Iris species using petal and sepal features.
- Implemented complete ML workflow: preprocessing, scaling, train-test split, and evaluation.
- Achieved **98% test accuracy** using scikit-learn.
- Created a prediction pipeline for unseen data classification.
- **Tech:** Python, Pandas, NumPy, scikit-learn.

Brain Tumor Detection (CNN, TensorFlow) [<link>](#)

- Developed a custom CNN model to classify MRI scans as **tumor vs. non-tumor**.
 - Applied data augmentation and normalization using ImageDataGenerator.
 - Used EarlyStopping and ModelCheckpoint for improved and stable training.
 - Achieved **~90% validation accuracy** and saved the best model (bestModel.keras).
 - **Tech:** TensorFlow, Keras, NumPy, Matplotlib.
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ACHIEVEMENTS & CERTIFICATIONS

- NPTEL - The Joy of Computing Using Python
 - Oracle Cloud Infrastructure (OCI) AI Foundations - Gained understanding of ML and DL concepts.
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EDUCATION

RK University, Rajkot	B.Tech in Computer Engineering	8.39 CGPA	(2023-2027)
Chanakya Science School	HSC	PR:66.27	(2021-2023)
Swaminarayan Gurukul	SSC	PR:87.63	(2018-2020)

REFERENCES

- **Dr.Chetan Patel**, Professor at RK University
Email: chetan.patel@rku.ac.in Phone no.: +91 98790 02288
- **Prof.Nikunj Vadher**, Professor at RK University
Email: nikunj.vadher@rku.ac.in Phone no.: +91 99784 46077