

# MUKESH KUMAR K

## AI&ML ENTHUSIAST

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## OBJECTIVE

**Dual-degree** student (**KIT CSE–AI/ML, IIT Madras BS Data Science**) with strong **Python, Javascript, SQL,DSA**.Hands-on in AI/ML using **TensorFlow, scikit-learn, OpenCV, and Hugging Face**; Full-stack with **MERN (MongoDB, Express, React, Node),REST APIs**. Fast learner, collaborative, and eager to build scalable AI solutions and user-centric web

## EDUCATION

Indian Institute of Technology - Madras

**BS - Data Science and Applications**

KIT-KalaighnarKarunanidhi Institute of Technology

**BE - CSE(AI&ML)**

## EXPERIENCE

### Machine Learning Intern - Appin Technology

- Completed hands-on training in machine learning and data science using Python, NumPy, pandas, scikit-learn, TensorFlow/Keras, and OpenCV.
- Worked collaboratively within a team, assisting in project development and evaluation on real-world datasets in Jupyter Notebooks, while enhancing analytical and coding skills.

## PROJECTS

### AI Brain Tumor Detection (Machine Learning)

- Developed a machine learning system to detect brain tumors from MRI scans using CNN models (TensorFlow/Keras) and OpenCV for image preprocessing.
- Evaluated model performance with accuracy and standard metrics; presented results with visualizations for interpretability.

**Tech stack:** Python, TensorFlow/Keras, OpenCV, NumPy, pandas, scikit-learn, Jupyter

### Brain Tumor Detection Web App (MERN + AI)

- Built a full-stack web app using React, Node.js, Express, and MongoDB to let users upload MRI images and receive brain tumor detection results from an integrated AI model (TensorFlow/Keras).

**Tech stack:** MongoDB, Express.js, React.js, Node.js, REST API

### AI Calorie Tracker Web App

Built a web app using AI and FatSecret API to track calories and nutrition. Users can log meals and get personalized insights.

**Tech stack:** React, Node.js, Express, MongoDB, FatSecret API

## SKILLS

**Programming:** Python | Javascript | C | SQL | DSA | OOPS

**AI&ML:** TensorFlow | Keras | PyTorch | scikit-learn | OpenCV | Hugging Face | ML | DL | GenAI

**Web Technology:** React | Node.js | Express.js | MongoDB

**Cloud:** Git | GitHub

## ACHIEVEMENTS

**DSA Mastery:** Solved 250+ Data Structures & Algorithms problems on LeetCode and CodeChef.

**Coding Competitions:** Participated in internal coding contests and AI workshops to enhance problem-solving skills.

**Online Certifications:** Completed courses in Python, SQL, and Foundations of Data Science (Coursera, NPTEL).

**Leadership & Activities:** Student Secretary (CSE AI & ML) | Student Secretary (BS Degree Program) | House Secretary — organized technical events, coding contests, and student engagement initiatives

## CERTIFICATIONS

Design Thinking - **NPTEL**

Get Started with Python - **Coursera**

Certificate of Achievement — Python Foundation Certification - **Infosys Springboard**

Certificate of Achievement — Artificial Intelligence Foundation Certification - **Infosys Springboard**

Certificate of Achievement — Internet of Things Foundation Certification - **Infosys Springboard**

## LANGUAGES

English | Tamil | Telugu

**LinkedIn:** <https://www.linkedin.com/in/mukeshkumark17>

**LeetCode:** [https://leetcode.com/u/MUKESH\\_KUMAR\\_K/](https://leetcode.com/u/MUKESH_KUMAR_K/)

**CodeChef:** <https://www.codechef.com/users/kit23bam032>

**GitHub:** <https://github.com/MukeshKumar-17>