# MAHESH KETAM

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Location: Hyderabad, India

## Professional Summary

## Aspiring AI engineer with a strong foundation in computer science and hands-on experience in artificial intelligence and computer vision. Currently pursuing a B.Tech in Computer Science with a focus on AI and machine learning. Demonstrated ability to apply theoretical knowledge to real-world projects. Eager to contribute to Techolution's innovative AI projects, particularly in computer vision. A quick learner with a passion for developing cutting-edge AI solutions.

## Core Competencies

* **Artificial Intelligence & Machine Learning**: Expertise in developing models for classification, regression, and predictive analytics
* **Computer Vision**: Hands-on experience with image processing, object detection, and image segmentation techniques
* **Deep Learning**: Proficient in neural network architectures and frameworks for computer vision tasks
* **Programming**: Advanced Python , Object-Oriented Programming (OOP) skills
* **Data Analysis & Preprocessing**: Skilled in data wrangling, feature engineering, and visualization
* **Tools & Libraries**: TensorFlow, Keras, Scikit-learn, Pandas, OpenCV, NumPy, Matplotlib
* **Software Development**: Familiarity with SDLC, version control (Git), and Agile methodologies

## Professional Experience

### Machine Learning Intern

*TechnoHacks EduTech Official* | Mar, 2024 - Apr, 2024

- Developed and implemented AI models for real-world business problems using Python and advanced machine learning algorithms - Utilized SQL for efficient data management and analysis, enhancing model performance - Integrated predictive analytics into existing workflows, improving team efficiency by 25% - Collaborated on computer vision projects, including image classification and object detection tasks

### Data Science and AIML Intern

*YBI Foundation* | Mar, 2024 - Sep, 2024

- Designed and implemented machine learning models for various prediction tasks, including computer vision applications - Applied object-oriented programming principles to create scalable and maintainable AI solutions - Leveraged deep learning techniques for image analysis and feature extraction - Demonstrated strong project management skills, adhering to SDLC best practices

**Data Science and Machine Learning Intern**

*Upskill Campus* | Aug, 2024 - Sep, 2024

* Designed and implemented machine learning models to solve industry-relevant business use cases.
* Performed data preprocessing, feature engineering, and exploratory data analysis on various datasets.
* Improved model accuracy by experimenting with advanced algorithms.

## Key Projects

Selected from a portfolio of 16 completed projects in AI, ML, and Computer Vision

**Breast Cancer Classification**

### Developed a machine learning model to classify breast cancer tumors as malignant or benign

### Achieved 98% accuracy, demonstrating the potential for AI in critical healthcare applications

### Implemented feature selection and model optimization techniques to improve performance

### Hand-written Digit Recognition om MNIST Dataset

### Developed a Convolutional Neural Network (CNN) model to classify hand-written digits

### Technologies used: TensorFlow, Keras, NumPy, Matplotlib

## Quality Prediction in a Mining Process

## Developed a machine learning model to predict the quality of ore in a mining process

## Implemented time series analysis and feature engineering to capture temporal patterns in the data

## Education

### Bachelor of Technology in Computer Science

*Jayamukhi Institute of Technological Sciences* | Dec, 2021 - May, 2025

* Relevant coursework: Machine Learning, Artificial Intelligence, Data Structures, Algorithms

**Intermediate**

*Samatha Junior College* | June, 2019 - Mar, 2021

**High School**

*Siddartha High School* | Completed 2018

## Technical Skills

* Programming Languages: Python (Advanced)
* AI/ML Libraries: TensorFlow, Keras , OpenCV , Scikit-learn , Pandas, NumPy, Matplotlib
* Cloud Platforms: Basic experience with Google Cloud AI Platform
* Version Control: Git, GitHub
* Development Environments: Jupyter Notebook, VS Code, Google Colab, PyCharm

## Additional Information

* Active content creator on LinkedIn, focusing on AI and computer vision innovations
* Passionate about staying updated with the latest trends in AI and sharing knowledge with the community
* Excellent communication skills, adept at explaining complex AI concepts to both technical and non-technical audiences

## Languages

* English (Fluent)
* Telugu (Native)
* Hindi (Proficient)

**Interests**

* Computer Vision
* Generative AI
* Deep Learning
* Healthcare AI Applications
* Business Analytics
* Continuous Learning and Skill Development