

Phani Pavan Kambhampati

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Education:

M.S By Research	IIIT Bangalore	3.85/4	2023-2025
B.Tech	Manipal Institute of Technology, Manipal	7.75/10	2018-2022
Class 12	SKVS Junior College, Vijayawada	9.4/10	2016-2018
Class 10	Delhi Public School, Vijayawada	9.4/10	2011-2016

Work Experience:

- Research Assistant at IIIT Bangalore, Aug 2022 – Dec 2022
- Internship at Reliance JIO, Jan 2022 – Jun 2022, Data Analyst – AI for BMS using Python

Technical Skills:

- **Languages:** Python, Dart
- **Web Technologies:** FastAPI
- **Database:** Redis
- **Front-End framework:** Flutter
- **ML Frameworks:** PyTorch, SNN Torch

Certifications:

- *Python for Everybody (5 Course Specialization)* - University of Michigan | Coursera
- *Version Control with Git* - Atlassian | Coursera
- *Applied Machine Learning and Data Science* - IIT Kanpur
- *Google IT Automation and Support with Python (6+5 Course Specialization)* - Google | Coursera
- *Introduction to Flutter Development Using Dart* - The App Brewery
- *IT and Cloud Fundamentals (5 Course Specialization)* – IBM | Coursera
- *Redis Certified Developer* - Redis University

Projects:

- *Vision based Robotic work cell using OpenCV—Assemtica Robotics* [May – June 2019]
 - A Robotic work cell with 2 Robotic arms, and a conveyor is built to demonstrate the possibilities of automation with artificial intelligence and computer vision.
- *Image Classification with CNNs using Keras* - Coursera Project Network [June 2020]
 - Tutorial which demonstrates how a CNN is built, trained and tested, with CIFAR-10 reference dataset.
- *Image Classification using Keras and Tensorflow* - IIT Kanpur [June 2020]
 - A group challenge hosted on Kaggle to classify 20K images into 200 classes as part of summer internship. Topics taught during the internship are used to finish this task.

- *Web Scraping* - Self exploration
 - An automation project hosted in the cloud, scrapes data daily, prepares a PDF report and sends it to subscribed list of members.
- *Co-WIN Vaccine Finder* – Self project [June 2021]
 - Android App made with the Flutter framework, uses Indian Govt's Open API to gather data and provide information in an easy-to-use UI.
 - The app received over 5K downloads over the span of a year on Google Play Store.
- *Secure Audio Communication* – IIIT-Bangalore
 - Uses acoustic modulation to transfer bytes of data by implementing the UART protocol and designed to be integrated into embedded wearable hardware.
- *AutoGrow* – IIIT Bangalore
 - Automated farming with IoT and Intelligence, adapts to the crop to supply varying amounts of nutrition as well as parameter tracking and storage made available for re-search purposes.

Internships:

- *Computer Vision and Advanced Robotics* - Assemtica Robotics [May - June 2019]
 - Concepts and applications of machine vision through python programming are introduced through specialised projects.
 - Projects such as object detection, object orientation detection, color sorting are pursued to understand machine vision concepts.
- *Applied Machine Learning and Data Science* - IIT Kanpur [April - June 2020]
 - Basic and advanced python, machine learning techniques are taught in the summer camp for the duration of 3 months, with a Kaggle competition at the end.
- *Small object detection in images using deep learning* – MIT, Manipal [Apr 2021– Apr 2022]
 - Created an image dataset using videos from aerial view of a UAV drone for human object recognition tasks. Published under limited access for research purposes with help from the Institute.
 - Published a journal paper as a benchmark for the dataset, containing performance comparison of various object detection frameworks like Detectron, Yolo and TensorflowOBAPL.

Papers Published:

- *Manipal-UAV person detection dataset: A step towards benchmarking dataset and algorithms for small object detection* – ISPRS Journal of Photogrammetry and Remote Sensing [Nov 2022]