

# Pranav Venkatesh

Roll No: 21ETMC412025

Btech

Mathematics and computing

MS Ramaiah University of Applied Sciences

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GitHub Profile

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## EDUCATION

### •M S Ramaiah University of Applied Sciences

2021-2025

Mathematics and Computing

CGPA: 8.84

### •Amratha Bharati PU college

2019-2021

PCMC Pre University

Percentage: 96

## EXPERIENCE

### •Tenerci

March 2023 - Aug 2023

Cloud Support Engineer

Bengaluru

- Analyzed and rectified 20+ software bugs within Excel, enhancing stability and functionality; outcomes resulted in a noticeable reduction in data processing errors and improved task completion time for 5+ team members.
- Integrated AWS SES for SMTP, successfully managing 100+ automated emails daily, increased communication efficiency by 40% and gained hands-on experience with cloud-based services.

### •Suganya Hospitality

Dec 2023 - Feb 2024

Research Intern

Remote

- Development of an image processing system (GOS-WADO), focusing on enhancing AI-driven image recognition and validation techniques.
- Implemented a comprehensive evaluation framework for image processing methods, validated through 500+ test cases, resulting in a 20% reduction in error rates and significantly improving system reliability.

## PROJECTS

### •Development of Autonomous Drone Navigation|Link

Designed a system enabling object detection using pinhole camera model.

- Tools & technologies used: YOLOv5, Python, OpenCV, TensorFlow.
- Implemented a mathematical model using the pinhole camera technique to calculate real-world coordinates from YOLOv5 inputs, achieving LiDAR-like precision in location determination; enhanced navigation and detection accuracy by 25%.

### •Wado 1.0: Image Processing Subsystem|Link

IPS to streamline check-in processes in the hospitality industry through quick ID verification.

- Tools & technologies used: Python, OpenCV, pytesseract.
- Created a remote Government ID Submission and Photo Verification System. It resulted in a reduction of 50% in check-in time, with automated identity verification improving operational efficiency and user experience.

### •SARIMA-based Black Pepper Price Prediction|Link

Designed an AI algorithm to predict future prices of black pepper, empowering farmers with actionable insights.

- Tools & technologies used: Python, SARIMA, Seasonal Analysis, Time-Series Forecasting.
- Optimized and deployed the SARIMA model, achieving a 15% increase in forecast accuracy; enhanced predictive analytics.

## TECHNICAL SKILLS AND CERTIFICATIONS

Data Structures and Algorithms, OOPs, Linux

Languages: Python, SQL

Developer Tools: Git, Power BI, Excel, Docker | Cloud/Databases: AWS, MySQL

Frameworks/Libraries: TensorFlow, PyTorch, Keras, OpenCV, Matplotlib, pytesseract, Pandas, NumPy

Mathematical Skills: Linear Algebra, Inferential Statistics, Quantum Computing, Complex analysis, Discrete math

AI/ML Algorithms: Regression, Clustering, Neural Networks, Decision trees, SARIMA

Soft skills: Problem solving, communication, team collaboration, self motivation, time management

Languages: English, Hindi, Kannada, Japanese-A1

Interests: Writing blogs|Link, swimming, cooking, reading books|Link, photography|Link

Certifications: Inferential Statistics|Link, IBM data science |Link, Programming foundations|Link, Communication Skills|Link, Foundational Data,ML&AI tasks in GCP|Link

## POSITIONS OF RESPONSIBILITY

### •Lead Ai developer Aeronyx

2023-present

### •Core member NSS

2021-present

## ACHIEVEMENTS

- Aerathon 2024 Development of autonomous drone navigation, progressed to the penultimate round(Top 25). Contributed to a 60% improvement in obstacle detection accuracy.