

# MAMATHA PRASANNA GOWTHAMI PAYASAM

Rajahmundry, India | pmpgowthami2k4@gmail.com | Ph: +91-9381284565 | LinkedIn | Github | Credly

## Education

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### SRM Institute of Science and Technology

Chennai, India

B.Tech., Computer Science and Engineering with specialization in Cloud Computing

Sep 2022 - May 2026

Cumulative GPA: 9.43

Coursework: Cloud Computing, Software Engineering, Algorithms, Operating Systems, Artificial Intelligence, Computer Networks

### Sri Shiridi Sai Vidya Niketan

Kadiyam, India

Senior Secondary Education - CBSE

May 2022

Percentage: 85

Coursework: Physics, Chemistry, Mathematics, English, Physical Education

### Sadhana School

Bhavalpalem, India

Secondary Education - CBSE

Mar 2020

Percentage: 89

Coursework: English, Maths, Science, Social, Telugu

## Skills

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- **Programming Languages:** Python, C, C++
- **Core Competencies:** Object-Oriented Programming, Data Structures, Artificial Intelligence
- **Cloud & DevOps:** Amazon Web Services, Google Cloud Platform, Docker
- **Software and Tools:** MATLAB, WIX Studio, Figma, Power BI, Git
- **Core Strengths:** Communication, Leadership, Teamwork, Presentation

## Certifications

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- AWS Certified Cloud Practitioner
- Nutanix Certified Associate 6
- Zscaler Zero Trust Associate
- GitHub Foundations
- Oracle Cloud Infrastructure Certified Foundations Associate

## Experience

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### Ntech.labs.

Remote

Intern – Operations and Development

Jan 2025 – Mar 2025

- Revamped internal workflow efficiency by 25% by streamlining documentation and operational procedures.
- Drove cross-departmental product development, supporting 3+ prototype builds.

### AICTE

Remote

Zero Trust Cloud Security Virtual Internship

Apr 2024 - Jun 2024

- Attained Zscaler certification, applying Zero Trust principles to secure cloud infrastructure in 20+ lab simulations.

### AICTE

Remote

AWS Cloud Virtual Internship

Sep 2023 - Nov 2023

- Designed scalable cloud architectures on AWS through 15+ hours of hands-on labs, using services like EC2, S3, and Lambda.
- Implemented cloud optimization strategies to enhance deployment, security, and scalability.

Projects

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**Dr. Druggs – AI-Powered Therapy Chatbot:**

- Engineered Dr. Druggs, an AI therapy bot with 85% emotion detection accuracy using NLP.
- Orchestrated 1K+ user interactions, delivering 24/7 mental health support via chatbot.

**SLAM implementation with Intel Robokit:**

- Architected a SLAM system using Intel RealSense D435i, achieving 90%+ mapping accuracy with ROS.
- Refined robot navigation, improving path planning success by 95% and obstacle avoidance by 20%.

**Sentiment Analysis on Twitter Data:**

- Built and deployed a sentiment analysis pipeline leveraging GCP and AWS.
- Processed 10,000+ tweets to generate real-time insights.

**Ear based biometric system:**

- Developed an ear-based biometric system using Python, achieving over 80% accuracy in user identification.
- Optimized feature extraction and classification algorithms, reducing processing time by 30%.

Achievements

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- Awarded Best Presentation in "Pythoneers: Code, Create, and Conquer," organized by ACM SIGCHI on August 31, 2024, at SRM University.
- Stood in the top 10 of GEN AI Study jam 2024, organized by GDSC SRM. Secured 9th position among 150 participants, showcasing expertise in Generative AI concepts and applications.

Activities

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Directorate of Alumni Affairs: Coordinator	May 2025 - Present
Directorate of Alumni Affairs: Head of Editorial Domain	Apr 2023 - May 2025
The Grad Society: Head of Alumni Relations Domain	Apr 2024 - Mar 2025