

MAMATHA PRASANNA GOWTHAMI PAYASAM

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Education

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

- **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

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

Experience

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

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

- 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

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