

MANEESH GEMBALI

+1(940) 843 5460 ◇ Dallas, TX

Maneeshgembali07@gmail.com ◇ [linkedin](#) ◇ [Medium](#) ◇ [Github](#) ◇ [Portfolio](#)

OBJECTIVE

Cloud-savvy engineering professional with experience delivering end-to-end MLOps solutions and intelligent automation across BFSI and Pharma industries. Skilled in designing cloud-native architectures using AWS services (SageMaker, Lambda, Textract, EC2, ECS, S3). Proven ability to build scalable deployment pipelines, automate infrastructure, and monitor production-grade ML workflows.

EDUCATION

Master of Advanced Data Analytics, University of North Texas 2023 - 2025

- Selected as core team member of squadron, REC's UAV innovation club, comprising 20+ active members driving aerospace projects.
- Mentored 5+ avionics-based projects, including autonomous drones and fixed-wing RC aircraft, enhancing members' hands-on engineering and flight control skills.
- Presented flagship UAV project at 4 national-level platforms including NCRAMS, AESI, IPC, and defence Expo'22, gaining recognition among 500+ attendees from industry and academia.

Computer Science Engineering, Hindustan University 2018 - 2022

SKILLS

Programming Languages	Python
Data Science & ML	Pandas, Numpy, Selenium, OpenCV, BS4, Requests, Openpyxl, PyXLL, Matplotlib, Scrapy, NLTK, Scikit-learn, Classification Models, Regression Model, TensorFlow, PyTorch, Transformers, NLTK, Transformers
Generative AI	Large Language Models, Retrieval-Augmented Generation, LLM Fine-tuning, LangChain, Hugging Face Transformers, Amazon Bedrock
Web Scraping & Automation	Selenium, BeautifulSoup (BS4), Scrapy, Requests, OpenCV
Cloud & Deployment	S3, SageMaker, Textract, Lambda, ECR, ECS, EC2, SQS, SNS, Lightsail, API Gateway, Docker

EXPERIENCE

Cloud Engineer May 2022 - Jul 2023
Ganit Inc

- Led a team of 5 engineers to deploy scalable IDP and GenAI solutions on AWS, reducing document handling time by 75% using S3, Textract, and Lambda.
- Deployed NLP-based claim adjudication workflows using SageMaker and Amazon Bedrock (Mistral 7B, Claude 3.5), achieving 90%+ accuracy.
- Automated multi-threaded credit risk stress test workflows using Python and AWS services, reducing manual workload by 90%.
- Built an audit automation system with end-to-end call and email compliance checks, increasing review coverage from 10% to 100%.
- Delivered a scalable scraping tool using Selenium + Lambda + S3 to extract data from 25+ sources with 90% efficiency improvement.
- Engineered real-time sentiment scoring using EC2-deployed inference services with alerts routed via SNS.
- Implemented event-driven architecture using SQS and Lambda to support concurrent execution of 1000+ tasks/day, reducing processing lag by 60% and enhancing system throughput.

PROJECTS

SmashAR Developed Smash AR, a multiplayer augmented reality FPS game using Unity 3D, ARCore/ARKit, and Photon, featuring real-time AI and 3D tracking. Achieved 25% improvement in mobile performance through graphics and memory optimization and designed an intuitive touch-based UI that enhanced player retention across 500+ downloads on iOS and Android. ([Try it here](#))

Smart Roads Engineered an IoT-powered Smart Road Crossing System using microcontrollers and sensors, reducing pedestrian response time by 50% and piloted at REC campus with 100+ daily users for real-world testing.

Product Recommendation Engine Developed a recommendation engine using customer segmentation (K-Means) leading to a 20% increase in user engagement and a 15% lift in product conversion rates for a major pharmaceutical client.

EXTRA-CURRICULAR ACTIVITIES

- Passionate about reading non-fiction and tech blogs, especially on AI, emerging technologies, and innovation trends - a habit that fuels continuous learning and future-focused thinking.
- Actively contribute to open-source Python and ML projects, demonstrating collaboration, curiosity, and commitment to community-driven growth.
- Enjoy strategy-based games like chess, Sudoku, and board games that challenge critical thinking, foresight, and decision-making under pressure.

AWARDS/CERTIFICATIONS

- AWS Cloud Practitioner
- Achieved the Runner-Up position in the AI/ML Gameday, a competition organized by Ganit Inc in collaboration with AWS.
- Received the Skill Seeker award from Ganit Inc in acknowledgment of contributing to the company's growth through a self-driven project that streamlined processes.
- Earned the Sentinel of Small Promises & Kudos award at Ganit Inc for undertaking the responsibility of training sessions for new hires, delivering high-quality sessions, assignments, and evaluations.
- Honored with the Best Project of the Year accolade by the Innovative Project Cell of REC.
- Major Project Tendrone was selected as one of the four projects to represent REC at defence Expo'22.