

# Valluru Yashwanth Reddy

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## EDUCATION

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- SRM INSTITUTE OF SCIENCE AND TECHNOLOGY** Kattankulathur, Chennai  
*Bachelor of Technology - Information Technology; GPA: 8.55* 2021 - 2025  
*Courses: Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Operating Systems*

## SKILLS SUMMARY

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- Languages:** Python, SQL, Bash, MYSQL, PostgreSQL, JAVA, Data Structures, Machine Learning, Linux
  - Frameworks:** Scikit-learn, TensorFlow, Keras, Matplotlib, Pandas, OOPS, REST APIs
  - Tools:** GIT, Jenkins, Docker, Kubernetes, Postman, SonarQube, Jira, Prometheus, Grafana
  - Cloud Services:** AWS(CLI, IAM, EC2, S3, VPC, Lambda, ECS, ECR, EKS)
  - Soft Skills:** Problem Solving, Leadership, Event Management, Public Speaking, Time Management

## EXPERIENCE

### Minfy Technologies

#### Devops + Migration

April 2025 – Present

- CI/CD Pipeline Integration:** Designed and implemented robust CI/CD pipelines using GitHub Actions, enabling automated testing, container builds, and seamless deployment to various environments.
- Dockerized Services:** Containerized machine learning models and services using Docker, ensuring consistent behavior across local, staging, and production environments.
- Deployed infrastructure on AWS** using EC2, S3, and EBS with secure IAM role configurations, automated using Terraform.
- Deployed services on AWS EC2, ECS and EKS** .Used ECR for container image storage.
- Leveraged Kubernetes** for container orchestration, handling service scaling, load balancing, rolling updates, and resource optimization.
- Implemented monitoring solutions** for services and infrastructure to ensure performance, uptime, and rapid issue detection.

## PROJECTS

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- Forest Land Encroachment Detection:** Built an automated forest monitoring system using Swin Transformer and ChangeFormer for change detection. Integrated Sentinel-2, Landsat-8, and MODIS satellite imagery through the Google Earth Engine API. Implemented real-time alerts for identifying illegal activities such as deforestation or encroachments. Tools: Python, OpenCV, GDAL, Geopandas, Google Earth Engine.

GitHub Project Link: [Forest Land Encroachment](#)

- Wheat Disease Classification with SSL:** Developed a wheat disease classification pipeline using Single Shot Learning (SSL), with VGG16 and ResNet50 as backbone architectures. Enhanced model precision using YOLO and positional attention blocks. Incorporated ensemble learning, knowledge distillation, and AutoML for improved generalization and performance. Tools: Python, Keras, TensorFlow, OpenCV, Matplotlib.

## CERTIFICATIONS

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- AWS Academy Graduate:** Machine Learning Foundations
  - AWS : AWS Cloud Practitioner**

## ACHIEVEMENTS

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- Rank:** SRM JEE – 5th Rank
  - Scholarship:** SRM Founders Scholarship Awardee

## VOLUNTEER EXPERIENCE

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- Joint Cultural Secretary In Directorate Of Student Affairs** SRMIST-Ktr  
*Organized Multiple Cultural Fest, Like Milan which Is one of the India's biggest Cultural fest.* Jan 2024 - Present  
Hosted AIU In Srmist, which organized by AIU
  - Committee Head** SRMIST -Ktr  
*Organized events, conducted multiple cultural events* Jan 2023 - Feb 2024