Yaswanth Reddy Arumulla

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Education

Vellore Institute of Technology (VIT), Amaravati August 2020 - July 2024
Bachelor of Technology in Electronics and Communication Engineering (Embedded Systems) (GPA: 8.23 / 10.0)

Sri Saraswathi Junior College, Ongole April 2018 - February 2020
Intermediate (Mathematics, Physics, and Chemistry) (GPA: 8.0 / 10.0)

Sri Surya Vaidyanathan, Ongole April 2017 - February 2018
Secondary School Certificate (SSC) (GPA: 8.8 / 10.0)

Experience

Skyline Software Solutions June 2021 – August 2021
Software Engineer Intern *ongole, India*

- This project focused on automating the conversion of medical transcripts into soft forms using AI-based OCR (Optical Character Recognition) tools. We achieved high accuracy in converting handwritten and hard form documents, outperforming traditional methods. The OCR tool demonstrated exceptional speed, converting images to text within seconds.
- My primary contribution was in the automation process, which included developing scripts, tuning OCR tool hyperparameters, and testing the resulting soft forms.
- Skills Used: Python, Unix, Manual and automated Testing.

Projects

Arduino-Powered Intelligent Robotic Car | *Arduino IDE, C Programming language, Linux*

- This project involved developing a self-controlled robotic car using Arduino. The robot utilizes an ultrasonic sensor to detect obstacles in its path. When an obstacle is detected, the sensor scans both right and left to determine the optimal direction for free movement. The sensor has a range of up to 150 cm.
- The project adheres to competition-specific rules that define the required level of programming and electronics for the robots.

Data Pipeline Implementation | *AWS Glue, Amazon S3, PySpark, CloudWatch*

- Built a scalable data pipeline using AWS Glue and PySpark to process and transform raw data, stored outputs in Amazon S3, and cataloged data with AWS Glue Crawler for seamless discovery and integration.
- Monitored and optimized ETL job performance with CloudWatch Logs, reducing execution time by 30%, while automating workflows to enhance efficiency and eliminate 90% of manual effort.

Cloud-Based Web Application Deployment | *AWS, EC2, RDS, EFS, S3, Cloud Front*

- Deployed a web application on AWS with a backend RDS MySQL database, leveraging EC2 instances in a custom VPC, integrated with EFS, S3, and Cloud Front for scalable, secure, and efficient content delivery.
- Configured an Application Load Balancer, Auto Scaling Group, and security groups, while deploying and optimizing Apache, PHP, and EFS to ensure high availability and seamless application performance.

Skills

Operating Systems: Ubuntu, Redhat Linux, Centos, Windows.
Version Control System Tools: Git, GitHub.
Cloud Technologies: Amazon Web Services, VMware.
Web technologies: Apache, Nginx
Programming/ Scripting Lang(s): C, Python, HTML, Java Script
Databases: MySQL, MongoDB
Tools: MATLAB, SPICE, LabView, ARM Keil, AMD Vivado.