AJAY S

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Education

B.E - Electronics and Communication	**(2022– 2026)**
Karpagam Institute of Technology, Coimbatore	CGPA 7.59

Experience

New Technology | Laptop Troubleshooting and Advanced Smartphone Development, Coimbatore (July 2023)

- Worked on troubleshooting laptops and developing advanced smartphone applications.
- Gained hands-on experience with diagnosing hardware and software issues and creating innovative solutions for smartphone technologies.
- Acquired skills in problem-solving, technical analysis, and advanced mobile development.

Web Application Development, Coimbatore (Aug 2024)

- Worked on building dynamic and responsive web applications using Python technologies.
- Designed and implemented Restful APIs, integrated databases like MySQL and PostgreSQL, and optimized back-end performance.
- Gained hands-on experience in front-end development with HTML, CSS, JavaScript, and frameworks like React.
- Developed skills in full-stack development, debugging, and deploying scalable web applications

Certifications

Basics of Python (Aug 2023)
Hackerrank
- Python basic, Control flow, Function and models.
- Proficient in Programming in Python

Oracle Cloud Infrastructure | Oracle Foundation AI Infrastructure (Sep 2023)
Oracle Cloud Foundation

- Topics include Oracle Cloud fundamentals, AI infrastructure services, cloud architecture, and resource management.
- Proficient in deploying, managing, and optimizing Oracle Cloud Infrastructure with a focus on AI-powered solutions.

AWS Cloud Foundation (Sep 2024)
AWS Acadamy

- Topics include cloud computing fundamentals, AWS architecture, services like EC2, S3, and RDS, and cloud resource management.
- Proficient in deploying and managing applications on AWS with a strong foundation in cloud concepts and services.

Problem Solving   **(Oct 2024)**
Leetcode,Hackerrank
- Intermediate Problem solving in Leetcode platform crossed 250 problems
- Intermediate problem solving certificate in Hackerrank

Basics of Data Engineering   **(Nov 2024)**
Guvi Foundation
- Topics include data pipelines, ETL processes, data warehousing concepts, and fundamentals of big data tools like Hadoop and Spark.
- Proficient in building and managing data workflows, data transformation, and ensuring efficient data processing.

AWS Cloud Practitioner Essentials   **(Jan 2025)**
AWS Academy

- Topics include AWS global infrastructure, core AWS services (EC2, S3, RDS, Lambda), security best practices, and AWS pricing models
- Proficient in understanding cloud concepts, architecting secure and scalable cloud solutions, and optimizing AWS cost management..

Projects

Adaptive Equipment for Bike Riding for Lower Limb Amputees | Innovation (2023)

- The system focuses on designing adaptive equipment to enable lower-limb amputees to safely and effectively ride bikes.
- It incorporates ergonomic designs and advanced mechanisms to enhance mobility and comfort.
- My role is to conceptualize and develop the adaptive equipment using mechanical and biomechanical engineering principles, ensuring usability and safety.
- The solution promotes inclusivity, improves independence, and enhances the quality of life for amputees.
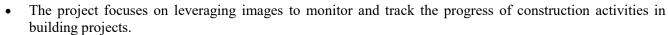
Online System for Automatic Title Verification | Software (2024)

- The system automatically verifies new title submissions by checking for similarities with existing titles.
- It streamlines the validation process, reducing manual effort and ensuring unique title submissions.
- My role is to design and implement the backend using natural language processing algorithms for title comparison and to develop a user-friendly interface for title verification.
- The solution improves accuracy, enhances workflow efficiency, and ensures the integrity of title submissions.

Weather Data Analysis | Data Science (2024)

- The project involves analyzing weather data to identify patterns, trends, and anomalies using data science techniques.
- It includes data cleaning, visualization, and predictive modeling to forecast weather conditions.
- My role is to preprocess large datasets, apply machine learning algorithms for predictions, and create insightful visualizations using tools like Python and Tableau.
- The solution aids in better weather forecasting, informed decision-making, and improved planning for weather-dependent activities.

Utilization of Images for Monitoring Construction Progress | Software (2024)

- The project focuses on leveraging images to monitor and track the progress of construction activities in building projects.
- It involves real-time data collection, analysis, and visualization to provide updates on construction status and ensure project efficiency.

- My role is to develop image-processing algorithms using machine learning and implement a system for seamless progress tracking and reporting.
- The solution enhances project transparency, improves management decisions, and ensures timely completion of construction projects.

Technical Skills	Soft Skills

Technical Skills

- Python
- HTML
- CSS/JavaScript
- Basic Java
- Data Science

Soft Skills

> Leadership

> Team work

> Critical Thinking

Achievement

- **Adaptive Equipment for Bike Riding for Lower Limb Amputees**:   **(Dec-2023)**
  Participated in paper presentation in ST.Joseph's College -Trichy.
- **Utilization of Images for Monitoring Construction Progress**   **(May-2024)**
  Participated in Intel Conference in Karpagam Institute of Technology, Coimbatore.

Research Paper

ATM with an Eye Using IOT for Security Purpose   **(July 2023)**
Patent Publisher, Official Journal of the Patent Office

- Published innovative research on 'ATM with an Eye Using IoT' aimed at enhancing security measures through advanced surveillance and real-time monitoring systems.