

AJAY S

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Aspiring Machine Learning and DevOps Engineer passionate about building data-driven solutions, optimizing workflows, and driving innovation through automation and AI.

EDUCATION :

ST. JOSEPH'S COLLEGE OF ENGINEERING

Bachelor of Technology in Artificial Intelligence and Machine Learning

CGPA : 7.66/10.0

Chennai, India

Nov 2021 - May 2025

JAWAHAR MATRICULATION HIGHER SECONDARY SCHOOL

HSC - (Computer Science)

PERCENTAGE : 84.1/100

Cuddalore, India

Jun 2020 - Jul 2021

SKILLS & TECHNOLOGIES :

Programming languages : Python, MySQL.

AI & ML : Deep Learning, Machine Learning, OpenCV, NLP, CNN, RNN, Decision Tree.

Data Visualization : Power BI, Microsoft Excel.

CD/CP & Deployment : GitHub Actions, Docker.

AWS Services : EC2, S3, IAM, VPC, ASG, ELB, RDS, Route 53, CloudFront, Lambda and +20 services.

Version Control & OS : Git, Linux.

PROJECTS :

Agentic AI-Powered Automatic Content Analysis Generation Platform :

- **Automated Blog Generation**: Developed a system that scrapes Twitter data based on user input.
- **Real-Time Web Scraping**: Implemented Selenium-based scraping to collect real-time tweets.
- **Content Structuring**: Leverages Llama 3.3 model to transform tweets into well-structured blogs.
- **Image Integration**: Automatically fetches relevant images for enriched blog content.

Cloud-Driven DevOps Pipeline on AWS :

- **Automated CD/CP Pipeline**: Implemented AWS CodePipeline and CodeDeploy for deployment automation.
- **EC2 & S3 Integration**: Configured EC2 instances and S3 for efficient code storage and deployment.
- **CloudWatch Monitoring**: Set up AWS CloudWatch to track application performance and detect anomalies.
- **SNS Alerts**: Integrated Amazon SNS for real-time deployment notifications and issue tracking.

Building a Safe and Scalable Network Infrastructure :

- **Implemented Internet Gateway**: Enabled secure inbound and outbound internet access for public subnets.
- **Configured NAT Gateway**: Allowed private subnet instances to access the internet without direct exposure.
- **Deployed EC2 Instances**: Placed instances in appropriate subnets for secure and efficient communication.
- **Enhanced Security**: Used security groups to regulate access and protect network resources.

WORK EXPERIENCE AND INTERNSHIPS :

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| • AWS Training Restart Program (Magic Bus India). | Dec 2024 - Feb 2025 |
| • Developed AI Agents for Finance Management (DeepMind). | Sep 2024 - Nov 2024 |
| • Trained and Developed Machine Learning models (ReTech Solution). | May 2023 - Jul 2023 |

CERTIFICATIONS :

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| • AWS Certified Cloud Practitioner. | Feb 2025 |
| • Career Essentials in Generative AI. | Jan 2025 |
| • Python and Data Science : A Practical Guide. | Jun 2023 |
| • Cambridge English: Business Vantage (BEC Vantage – B2). | Mar 2023 |

ACHIEVEMENTS :

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| • Secured 1st place in an intercollegiate web development competition. | Aug 2024 |
| • Guru Nanak Institution Hackathon Finalist – Hyderabad. | Sep 2023 |
| • Secured 2nd place in Crescent College Paper Presentation. | Aug 2022 |