

# Sooraj G Vaidya

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## SUMMARY

Result – Seeking a Beginner role to Enhance and Explore my technical knowledge gained at **Jyothy Institute of Technology** in the last three years.

## EDUCATION

<b>BE in Artificial Intelligence And Machine Learning</b> Jyothy Institute of Technology (VTU).	<b>CGPA :8.0</b>	<b>2025/AUG</b>
<b>Department of Technical Education, Bengaluru</b> PPC ,Udupi, Karnataka, India	<b>Percentage : 87%</b>	<b>2021/ MAY</b>

## TECHNICAL SKILLS

- **Programming Languages:** Python, C , Java.
- **Cloud:** AWS.
- **Development Tools:** VS Code, Postman, Docker, Jenkins, Terraform.
- **Web Development:** HTML5, CSS, Bootstrap, Django(learning).
- **Version Control:** Git/Github , Bitbucket.
- **Operating systems:** Windows, Ubuntu.
- **Core Concepts:** Machine Learning, Data Structure and Algorithms, DBMS.

## CERTIFICATIONS:

- Docker from Infosys springboard.
- Jenkins from Infosys springboard.
- Java from NPTEL.
- AWS cloud foundations by AWS Academy.
- Machine Learning from Coursera(Learning).

## EXPERIENCE/INTERNSHIPS:

### 1.Cloud and DevOps Intern:

Basava Pracheena Vaidya Anveshana Kendra (Basava Acu Academy) | *April 2024 – Present*

- **Django Application Deployment:** Successfully containerized and deployed Django applications on AWS EC2 instances using Docker, with secure SSL/TLS configuration via Let's Encrypt and Nginx reverse proxy setup for seamless HTTP/HTTPS handling.
- **Infrastructure Automation:** Automated the provisioning of essential AWS infrastructure, including VPCs, EC2 instances, Subnets, and IAM roles, using Terraform to enhance deployment efficiency and consistency.
- **CI/CD Pipeline Implementation:** Engineered a CI/CD pipeline in Bitbucket that automates Docker image creation and deployment to AWS EC2, with a mechanism to automatically manage and retain the latest three images on the server.

## PROJECTS:

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### 1. Stock Trading Signal Generator:[ongoing]

- **Description:** Built an interactive GUI using Streamlit that provides buy/sell signals and future market predictions based on news, technical indicators (RSI, Bollinger Bands, Moving Average, MACD), and an LSTM model.
- **Technologies Used:** Streamlit, Python, LSTM, Pandas, NumPy, Matplotlib
- **Key Features:**
  - Combined technical analysis with news to enhance trading decisions.
  - Used an LSTM model to predict future price movements.
  - Displayed signals and predictions visually to assist in real-time decision-making.

### 2. Secure Django Application Deployment:

- **Description:** Deployed a Django application on an AWS EC2 instance using Docker, secured with an SSL certificate from Let's Encrypt.
- **Technologies Used:** Docker, Django, AWS EC2, Nginx, Let's Encrypt.
- **Key Tasks:**
  - Set up a reverse proxy with Nginx to handle HTTP requests and redirect to HTTPS.
  - Obtained and configured SSL certificates to ensure secure communication.
  - Built and deployed the application as a Docker container on AWS ec2 instance.

### 3. Automated CI/CD Pipeline with Bitbucket:

- **Description:** Developed a Bitbucket CI/CD pipeline that builds Docker images and deploys them to an AWS EC2 instance, ensuring efficient image management and automated deployment and this reduced the deployment time 80%.
- **Technologies Used:** Bitbucket Pipelines, Docker, AWS EC2.
- **Key Features:**
  - Automated the creation and deployment of Docker images from the repository.
  - Configured the EC2 instance to retain only the three most recent Docker images, with automatic deletion of older images.
  - Ensured that the deployed Docker images start automatically upon deployment.

### 4. AWS Infrastructure Automation with Terraform:

- **Description:** Automated the creation of AWS infrastructure, including VPC, EC2 instances, Subnets, and IAM roles using Terraform.
- **Technologies Used:** Terraform, AWS (VPC, EC2, Subnet, IAM).
- **Key Achievements:**
  - Streamlined infrastructure provisioning with infrastructure-as-code.
  - Ensured consistent and repeatable deployments of AWS resources.
  - Enhanced security by automating the setup of IAM roles and policies.

## Other Activities:

Participated in Samsung Innovation Campus, presented our idea on Decentralized Financial Monitoring System (DeFi Track) and got shortlisted among 50 teams out of 500.