

Akhilesh Babu Tumati

+1-5712380184 | akhileshbabut24@vt.edu | <https://www.linkedin.com/in/akhilesh-babu-tumati> | <https://github.com/Akhilandrew>

Experience

• Tata Consultancy Services (TCS)

Software Engineer

Hyderabad, India

August 2023 – August 2024

- Deployed Jenkins CI/CD pipelines under the UPS client, reducing deployment time by 40% and minimizing deployment errors by 30%.
- Managed CouchBase DB, optimizing data storage and retrieval processes by 25%, improving application performance by 15%.
- Monitored servers and applications using DynaTrace and Grafana, reducing system downtime by 20% and improving response time by 10%.

• Honeywell Solutions Technology Lab

Software Developer

Hyderabad, India

January 2023 – June 2023

- Developed automation scripts using Katalon, reducing testing time by 30% and improving test coverage by 25%.
- Implemented front-end improvements using JavaScript and Angular, increasing user satisfaction by 15% and reducing page load times by 20%.

Education

• Virginia Tech

Masters in Engineering Computer Science

Virginia, USA

August 2024 - current

• Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering

Amaravati, India

June 2019 – July 2023

- GPA: 8.40/10.00

Skills

- **Programming Languages:** Java, JavaScript, Python
- **Software Development:** JavaScript, TypeScript, React, Node.js, Spring Framework, Spring Boot, Figma, MySQL, CouchBase, MongoDB, Jenkins CI/CD pipelines, Bamboo, BitBucket, Git, AWS (EC2, VPC, EKS, Lambda)
- **Data Science & AI:** NumPy, Pandas, Matplotlib, TensorFlow, SK-Learn, PyTorch, Flask, Streamlit, Roboflow
- **Cloud Technologies:** AWS (EC2, VPC, EKS, Lambda)
- **Other Tools & Technologies:** Katalon, Jira, Confluence, TFS, DynaTrace, Grafana

Academic Projects

• Crypto Currency Value Prediction:

Tools: [Google colab]

- Utilized ARIMA and SARIMA for time series prediction of cryptocurrency values, achieving 85% accuracy.

• Mahabharat Character Detection:

Tools: [Google colab, RoboFlow]

- Developed multi-character detection using ResNet-50, VGG-19, ViT, and YOLOv5, improving accuracy by 30%.

• Creating Private Cloud Storage:

Tools: [Raspberry Pi, NextCloud]

- Built private cloud network using Raspberry Pi and NextCloud API, increasing data accessibility by 50%.

• Human Height Prediction:

Tools: [Google Colab, Roboflow]

- Applied image segmentation using Mask-RCNN, categorized data points, and used PyTorch for detection.

Publications

- [C.1] Akhilesh Babu Tumati, et al. (2023). **Face Invariant Classification and Detection of Mythology Characters Using Custom Dataset (ClaDeMuC-CD)**. In *2023 Third International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)*, IEEE. 05-06 January 2023, Bhilai, India. DOI: 10.1109/ICAECT57570.2023.10118094

Certifications

• AWS Cloud Practitioner

August 2021