

Akhilesh Babu Tumati

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 [Akhilesh Babu](#) |  [Akhilesh Babu](#)

Falls Church, Virginia - 22043, USA

EXPERIENCE

- **Honeywell Solutions Technology Lab, Hyderabad** January 2023 – June 2023
Software Developer Hyderabad, India
 - Developed automation scripts using Katalon, reducing testing time by 30% and improving test coverage by 25%.
 - Implemented front-end improvements in enterprise applications using JavaScript and Angular, leading to a 15% increase in user satisfaction and reducing page load times by 20%.
- **Tata Consultancy Services (TCS)** August 2023 – August 2024
Software Engineer Hyderabad, India
 - Deployed Jenkins CI/CD pipelines under the UPS client, reducing deployment time by 40% and minimizing deployment errors by 30%.
 - Managed CouchBase DB, a NoSQL cloud database, optimizing data storage and retrieval processes by 25%, leading to a 15% improvement in application performance.
 - Monitored/Tracking servers and applications performance using DynaTrace and Grafana, resulting in a 20% reduction in system downtime and improving application response time by 10%.

EDUCATION

- **Vellore Institute of Technology** June 2019 – July 2023
Bachelor of Technology in Computer Science and Engineering Amaravati, India
 - GPA: 8.40/10.00
- **Sri Chaitanya Junior College** March 2017 - March 2019
Higher Secondary Education Hyderabad, India
 - GPA: 8.77/10.00

ACADEMIC PROJECTS

- **Crypto Currency Value Prediction:**
Tools: [Google colab]
 - Utilized ARIMA and SARIMA for time series prediction of cryptocurrency values, achieving a prediction accuracy of 85%.
- **Mahabharat Character Detection:**
Tools: [Google colab, RoboFlow]
 - Developed a multi-character detection system using state-of-the-art architectures like ResNet-50, VGG-19, ViT(Vision Transformers), and YOLOv5, improving detection accuracy by 30% compared to traditional methods.
- **Creating Private Cloud Storage:**
Tools: [Raspberry Pi, NextCloud]
 - Built a private cloud network using Raspberry Pi and NextCloud API, increasing data accessibility by 50% and reducing reliance on third-party Basic cloud services.
- **Human Height Prediction:**
Tools: [Google Colab, Roboflow]
 - Applying image segmentation on data using Mask-RCNN, then categorizing the data points based on the masked instances, and for better competency detection and PyTorch libraries are used.

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [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

SKILLS

- **Programming Languages:** Java, JavaScript, Python
- **Web Technologies:** JavaScript, TypeScript, React, Node.js, Java, Spring Framework, Spring Boot, Figma
- **Database Systems:** MySQL, CouchBase, MongoDB
- **Data Science & Machine Learning:** NumPy, Pandas, Matplotlib, TensorFlow, SK-Learn, Hugging Face, PyTorch
- **Cloud Technologies:** AWS (EC2, VPC, EKS, Lambda)
- **DevOps & Version Control:** Jenkins CI/CD pipelines, Bamboo, BitBucket, Git
- **Other Tools & Technologies:** Katalon, Jira, Confluence, TFS, DynaTrace, Grafana