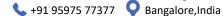








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#### **SUMMARY**

- Proactive Software Engineer with 4.5+ years of professional experience in technology driven organizations following AGILE process of software development life cycle using CI/CD pipelines, AI model engineering with code metrics, git practices and exposure in system design and architecture.
- AWS Cloud Certified Associate Developer with strong hands-on experience in developing and deploying scalable cloud-based systems in AWS & GCP.
- TensorFlow certified Machine Learning practitioner with demonstrated knowledge by building various AI models and by relevant research experience.

#### **WORK EXPERIENCE**

## Software Engineer-2 | Intuit Inc. - Bangalore

Oct 2022 - Present

- Working in core development of ProSeries TY22 & TY23, Professional Tax software products for US which has revenue over 170 million USD.
- Successfully released 11+ releases for the product, having 50k+ customers in US, using Jenkins and analysed various data in Splunk dashboards.
- Incorporated Intuit Assist (GenAl platform) into ProSeries TY23, using paved path services to reduce 60% of preparation time for tax preparers.

# Software Engineer-2 | Philips Healthcare - Bangalore

Sept 2021 - Oct 2022

- Parallely worked in 3 key programs in MR Imaging modality, also in Advanced Development of CT workflow in Image Acquisition Platform team.
- Delivered 8+ features for MR Artes release & Service pack release with maintainable and testable code using appropriate design patterns.
- Developed and owned 4 major components of MRI console system with end-to-end documentation of design, tests & requirements.

#### Software Engineer-1 | Philips Healthcare - Bangalore

June 2019 - Sept 2021

- Implemented 6 features while adhering to SOLID principles in C# .NET using BDD (SpecFlow) and ensuring code quality score (TICS) > 95%.
- Developed 3 major Change Requests to address critical customer feedback with high priority, and fixed 18+ product defects in MR R10 release.

#### Data Analytics Intern | Nokia Solutions and Networks - Chennai

May 2018 - June 2018

Worked for product engineering with data analytics & Machine learning and reduced 72% of the defective modules in production line.

## Embedded Engineer | Technocrats Robotics - VIT University's Official Robotics Team

Apr 2016 - May 2018

- Built 2 autonomous and 4 manual robots coordinating across interdisciplinary teams for International Robotics competitions, ABU ROBOCON.
- Comprehensive research in the field of Computer Engineering to build functional robots with high accuracy using ML Logistic Regression & SVM.

## **EDUCATION**

# VIT University | Vellore Institute of Technology - Chennai

June 2015 – May 2019

Bachelor of Technology in Electronics and Communications Engineering (CGPA: 7.83/10) Relevant Courses: Digital Image Processing, Neural Networks, Object Oriented Programming, Network Security, • AWS Developer Certification – 880/1000

Embedded System Design, Calculus, Applied Linear Algebra, Probability theory, Statistics.

- Robotics Club: Actively involved in end-to-end development of robots using ML, Microcontrollers. (3 years)
- GRE 316/330 (Q:163, V:153, AWA: 4)

**TEST SCORES** 

- **TOEFL iBT 108/120** (R:30, L:28, S:23, W:27)
- Higher Secondary Education (CBSE) 94.4%

## PUBLICATION | IEEE Paper |

Published: May 2020

IEEE citation - S. Kowshik, V. R. Gautam and K. Suganthi, "Assistance For Visually Impaired Using Finger-Tip Text Reader Using Machine Learning" 2019 11th International Conference on Advanced Computing (ICoAC), 2019.

Text segmentation (Fully Convolutional Network + NMS) -> Text recognition (Tesseract OCR) -> Text to Speech Conversion

## **KEY PROJECTS | GitHub|**

- AWS Web Application A multi-tier cloud-based web application with JWT authenticated REST API endpoints using node.js, hosted on EC2 in a custom VPC under ALB with autoscaling, along with RDS, S3, SES, Lambda & SNS. The whole stack is created using CloudFormation (IaC) for reusability.
- SpaceX Landing Analysis An end-to-end Data science project in IBM Cloud with Data collection and ETL using BeautifulSoup, EDA with SQL & plotly, Interactive visual analysis using Dash & Folium, and Predictive analysis using ML models with GridSearchCV to find the optimal hyper-parameters.
- Tumour Segmentation Medical image segmentation using PyTorch, OpenCV to identify tumour in medical images with Computer Vison.
- Serverless Music App An AWS serverless app to stream music created using AWS CDK in python with API Gateway, Kinesis Streams, S3 & Lambda.
- Document Analyzer An AI pipeline with GCP, AutoML models to extract the key data from documents and to store in BigQuery for further analysis.
- SkimLit An AI model which skims a research paper & provides a detailed summary. Used NLP with analysis of RNN (GRU, LSTM) & Conv1D models.
- FoodVision Computer Vision model to identify the food using CNN (EfficientNetB0), trained with dataset of 10100 images by fine tuning the model. Chatbot for Healthcare - Interactive chatbot using C# with MS SQL database and WCF, integrated with CI pipeline - quality gates, build and run tests.

### PROFESSIONAL CERTIFICATIONS | Digital Badges |

AWS Certified Developer – Associate Certification by AWS [April 2022]

TensorFlow Developer Certification by TensorFlow [Feb 2022]

IBM Data Science Professional Certificate (V2) by IBM [Nov 2021]

Specialization in Deep learning by deeplearning.ai (+ honours) [2018]

Machine Learning by NPTEL, IIT Kharagpur (elite certification) [2017]

# **ACHIEVEMENTS**

- Winner of 2021 IAP Hackathon, Philips "Smart MRI console"
  - Anomaly detection and segmentation using deep learning.
- Winner of 24-Hour IoT Make-athon, 2018 with the theme -
  - Inventory management using IoT, Deep learning and OpenCV.
- Received Super Star award & 3 quarterly awards (Philips and Intuit)

Represented VIT university in *International Robotics Competition*.

Taking ownership, being Team player, delivering first time right.

**TECHNICAL SKILLS** 

Languages Python, C#, C++, SQL, Java, JavaScript

Frameworks .NET, SpringBoot, TensorFlow, WPF, PyTorch, OpenCV,

WCF, node.js, Keras, pandas, scikit Learn, D3

Databases MSSQL, MongoDB, Dynamo DB

Platforms AWS, GCP, Azure, Linux, Windows

# LEADERSHIP AND CO-CURRICULAR EXPERIENCE

- Core leader in **Young Leaders Club**, Philips Representing as a mentor in Reverse mentoring program & managing internal initiatives.[2021-22]
- Department Head in Technocrats Robotics team, VIT.

[2017-18]

• Student Organizer of International Conference, ICNETS<sup>2</sup> [2017]

• Overall Student Coordinator of 24-Hour IoT Make-athon, VIT. [2017]

• Part of the Student Chapter in IEEE Signal Processing Society. [2018-19]

Active member in Toastmasters club, for speaking and leadership skills.