

POORVIK JAIN TM

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EDUCATION

Bachelor Engineering, Information Science Engineering

Channabasaveshwara Institute of Technology, Tumkur CGPA 8.47 04/2020-06/2024

PUC

Sarvodaya PU college ,Tumkur 82.66% 03/2018-06/2020

WORK EXPERIENCE

Graduate Trainee Engineering

ZSCALER Feb 2024 – present

I work on projects with software development that enhance the performance and security of networks. In addition, I use tools like Cisco Packet Tracer and Wireshark to troubleshoot network issues, getting valuable real-world experience in networking and cloud security.

Software Developer Engineering intern (Machine Vision)

Central Manufacturing Technology Institute – Govt. of India (CMTI) May-July 2023 [Certificate](#)

As a Software Developer Engineer Intern, I created a 3D visualization solution, increasing user engagement by 30%. I integrated technologies for universal compatibility, optimized machine operations by 15% through predictive maintenance, and enhanced software functionality by 25% through cross-functional collaboration, demonstrating problem-solving and innovation.

PROJECTS

One Stop Solution For Social Media Management: [GitHub](#)

- **AWS-Backed Hackathon:** Participated in an AWS user group India hackathon during AWS Community Day India.
- **Project Concept:** Developed a platform for event managers to plan and announce events simultaneously via email, Discord, etc., simplifying the organizer's role.
- **Success:** Thrilled to secure 2nd place and receive a cash reward for the project's innovation and utility.
 - **Tools:** Lambda | IAM ROOT | Email and Discord Integration | python | Html |CSS |JS

Cross –Platform Linking Between Cpp, Python, Qt: [GitHub](#)

- **Cross-Platform Linkage:** Challenges in integrating C++, Python (Pybind11), and Qt (PyQt/PySide) for unified applications across OSs.
- **Dependency Management:** Handling platform-specific dependencies, CMake for correct compilation and binary generation.
- **Seamless User Experience:** Consistent UIs and system-level features, creating versatile applications.
 - **Tools:** C++ | Python (Pybind11) | Qt (PyQt/PySide)| Dependency Management | CMake

Industrial Milling Machine Tool Wear Detection by SVM: [GitHub](#)

- **Tool Wear Challenge:** Metal cutting machines often face tool wear, leading to surface defects and inaccuracies due to friction and heat.
- **Predictive Solutions:** Sklearn, linear regression, and support vector machines analyze data to predict tool wear, maintenance.
- **Reduced Downtime:** Early detection prevents work piece damage, machine breakdowns, enhancing efficiency by minimizing downtime.
 - **Tools:** Tool Wear Detection | Sklearn | Linear Regression | Support Vector Machines

Predictive Analytics of Heart Failure using scikit learn Random-Forest and XGBoost Models: [Github](#)

- Using Pandas to perform one-hot encoding of a dataset
- Using scikit-learn to implement a Decision Tree, Random Forest and XGBoost models

Sign Language Detector Using Hand Gestures Opencv:

- **Technology Stack:** Employing MediaPipe, OpenCV, and Google Teachable Machine for an image tracking.
 - **Gesture Detection:** Aiming to detect hand gestures, predict matching signs for a user-friendly app to aid communication with disabled individuals.
 - **Challenges:** Facing issues with processing power, high CPU consumption, and the need for extensive datasets for effective model training.
- Tools:** MediaPipe | OpenCV | Google Teachable Machine | Model Training

CERTIFICATIONS

[Machine Learning Specialization](#)
[Remote sensing and GSI](#)
[Supervised Machine Learning](#)
[Advanced Learning Algorithms](#)
[Machine Learning Foundations](#)
[Nano Degree](#)
[Scientific Computing with Python](#)
[Nptel Programing in Java](#)

Stanford Online | [DeepLearning.AI](#)
Indian Institute of Remote Sensing ,Dehradun
Stanford Online
Stanford Online
AWS Educate
Udacity
FreeCodeCamp
IIT Kharagpur

TECHNICAL SKILLS

- **Programming Languages:** Python , C++, SQL, ,Java, C , JavaScript (basic)
- **Machine Learning:** OpenCV, NumPy,Pandas,Matplotlib
- **Developer Tools:** VS Code , AWS, Git and GitHub, postman, QT , Linux
- **Frame works basics:** spring boot (basic)

SOFT SKILLS

- Problem Solving , Analytical, Time Management, Collaboration, Leadership, Adaptability

ACHIVEMENTS

Active participation in hackathons:

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|---|-----------|-----------------------------|
| • AWSomeify Hackathon (AWS INDIA) | Runner Up | ProjectLink |
| • AWS Deep Racer | | |
| • CIPHER BATTLE 2022 – 24 Hours Hackathon | Winner | Link |
| • KNEW- NATIONAL LEVEL TECHENICAL SYMPOSIUM | Winner | Link |
| • TECHNO-CULTURE FLARE 2023 | Runner Up | Link |

Membership:

- AWS cloud champ
 - Member of INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)
 - Coordinator for Infy challengers club CIT
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