

# Gowtham Sai Ponnekanti

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## EDUCATION

Gokaraju Rangaraju Institute of Engineering and Technology

Aug 2018 – July 2022

B.Tech in Computer Science

GPA: 9.31/10.0

## EXPERIENCE

### Amazon

July 2022 – Feb 2024

Software Development Engineer

Hyderabad, India

- Contributed to **proactive system to detect potential delays in package deliveries** built using Machine Learning models. This initiative resulted in a substantial **cost-saving of 20 million USD** through negotiated concessions.
- Individually dived deep** to identify issues and designed solutions to **fix the gaps** in the amazon revenue recognition workflow, **achieving a coverage of 99.999%**
- Designed and implemented a service** to test multiple machine learning models with production data, which resulted in **saving 2 developer weeks of effort** to test each model individually.
- Individually led deprecation of redundant services** and moving existing services to latest AWS constructs resulting in **reduction of operational load** of team by 10 SDE hours

### Amazon

Jan 2022 – Jun 2022

Software Development Engineer - Intern

Hyderabad, India

- Designed and created an API service** for SDEs to effortlessly analyze ML model predictions. This solution allows custom input invocation and input replication, streamlining ML model analysis for enhanced efficiency and flexibility in decision-making **reducing 10 hrs of SDE work per week**.

### Centella Scientific

May 2021 – Aug 2021

Machine Learning Engineer - Intern

Hyderabad, India

- Conducted **research** on harnessing the potential of **machine learning** for transformative applications in **drug discovery and drug repositioning** within the pharmaceutical industry

### RoundSqr Technologies

Feb 2021 – May 2021

Machine Learning Engineer - Intern

Hyderabad, India

- Worked on medical image processing using AI and ML and **developed a Flask application** seamlessly integrated with Google Colab, enabling the invocation of sophisticated models with user-defined inputs.

## TECHNICAL SKILLS

**Areas of Interest:** Microservices, Distributed Systems, Cloud Computing, Machine Learning, DSA

**Languages and Frameworks:** Python, Java, Scala, GraphQL, TypeScript, React, PostgreSQL, MySQL, NoSQL, HTML, CSS

**Tools and Technologies:** AWS, Spark, Git, Docker, Linux, Jira, Agile, CI/CD, API, Full Stack web development

## PROJECTS & RESEARCH

- Quickart:** Created a shopping cart integrated with built-in sensors to minimize queues in supermarkets and shopping malls by billing automatically, employing Raspberry Pi technology
- Podcast Website:** Developed a mobile-friendly front-end for a podcast website utilizing HTML, CSS, and JavaScript.
- SmartBand:** Developed a gesture-based band for seamless communication between elderly/bedridden individuals and caregivers, incorporating features like gesture recognition and fall detection using machine learning algorithms.

## Publications

- Advanced Healthcare System using Artificial Intelligence, IEEE(2021)

## Patent

- Smart Glove for efficient communication for the specially abled, ApplicationNo: 202041038106

## AWARDS / EXTRACURRICULAR

- 4th in competition organised by **NRDC, Govt of India**
- Top 15/100 in Smart city hackathon by BITS, Goa and European Union
- 1<sup>st</sup>/500 in MSME Hackathon conducted in SNIST
- 2<sup>nd</sup>/50 in JNTUH-SOAL Hackathon conducted by JNTU
- 3<sup>rd</sup>/50 in J-Hub Central league hackathon conducted by JNTU