

# Abburi Sai Karthik

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## EDUCATION

### Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer Science and Artificial Intelligence

Kollam, Kerala

Aug. 2020 – May 2024

## EXPERIENCE

### AWS cloud Intern

Oct 2021– Dec 2021

Remote

- Gained comprehensive knowledge of Amazon Web Services (AWS) and its diverse range of services.
- Developed a fully functional server less web application leveraging AWS services during an intensive internship.
- Gained invaluable insights into real-life software industry practices and workflows.

## PROJECTS

### Examining Amazon Customer Reviews | AWS, Pyspark

Aug 2022 - Dec 2022

- Collaborated in a team of 4 to successfully execute a project leveraging Pyspark and AWS technologies.
- Led the establishment of a data lake, ensuring seamless data integration and efficient storage
- Took charge of data pre-processing and expertly converted large-scale CSV data into optimized parquet.
- Conducted preliminary analysis using Athena to gain valuable insights into the data.
- Github Repository : [link](#)

### Network Intrusion Detection System | SDN, Random Forest

Jan 2022 – July 2022

- We were a team of three collaborating on this project.
- The objective of this project is to Utilize Software-Defined Networking (SDN) to proactively detect and intercept potentially harmful data transfers between networks, ensuring enhanced cybersecurity measures.
- The data that was harmful was given a label of 1, while the data that was safe was labelled as 0.
- My role is to design the network architecture and the production of the training data for this project.
- Github Repository : [link](#)

### Teleoperating a robot using Hand Gestures | ROS, Leap Motion Sensor

Aug 2021 – Dec 2021

- We were a group of 3 for this project.
- Developed a simulator robot which moves with help of Hand Gestures in real time.
- This project is done with the help of robotics operating System, python, and leap motion Sensor.
- I am responsible for integrating ROS Gazebo and the leap motion Sensor
- Github Repository : [link](#)

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL , JavaScript, HTML/CSS

**Developer Tools:** Git, Google Colab, VS Code, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib

Fundamentals of AWS & Services

Machine Learning & DeepLearning Algorithms

Data Structures & Algorithms, operating systems, Networking

## CERTIFICATIONS

**AWS Certified Cloud Practitioner** | [link](#)

## PUBLICATIONS

### Examining Amazon Customer Reviews Using PySpark and AWS | ICCNT, IIT Delhi

- A paper submitted at the 14th ICCNT conference was published on IEEE Digital Library XPLORE and indexed by Scopus.
- IEEE Xplore : [link](#)

### Image Captioning: Analysing CNN-LSTM and Vision-GPT Models | I2CT2024, Pune

- A paper submitted at the 9th I2CT 2024 conference got accepted for publication. It will appear in the IEEE Digital Library Xplore and be indexed by Scopus.