

# POOJITHA VEMPALLI

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## EDUCATION

### Sri Venkateswara College of Engineering

Bachelor of Technology in Electronics and Communication, GPA: 8.64/10

Coursework: Computer Programming, Data Structures, VLSI Design, Computer Architecture

**Tirupati, India**

July 2018 – July 2022

## EXPERIENCE

### Capgemini Technology Services

Analyst

**Bangalore, India**

Nov 2022 – Present

- Full Stack Java Developer with expertise in developing web applications, Development and maintenance using HTML, CSS, JavaScript, Angular, SQL Server, MongoDB, Spring Boot, Core Java and Microsoft Azure.

### Summer School, Ural Federal University

Crash Course Intern

Jul 2021 – Aug 2022

- Worked on Solar Power Generation Prediction Day-Ahead Model, the data is collected from the solar power plant in Russia, Astrakhan city.
- Improved the performance of the machine learning models using K\_Fold method & Fine-Tuned Parameters.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C

**Databases:** MySQL, SQL Server, Mongo DB

**Web Technologies:** HTML5, CSS, Angular

## PROJECTS

### On-Demand Car Wash System

Sep 2022

**Tools & Platform:** AngularJS, Java, Spring Boot, MongoDB (VScode & eclipse – editors)

- Designed online web application using the Spring Boot framework.
- Implemented five microservices namely, Admin, User, Washer, Orders, and Payment microservices.
- Each microservice stores its own persistent data using the MongoDB database.
- Implemented the User-Interface using Angular.

### Parking Management System

Jun 2022

**Tools & Platform:** AngularJS, Java, Spring Boot, MySQL (VScode & eclipse – editors)

- Parking management system will make it easy for people to find safe place for parking and enables time management. This helps the people to pre-book the parking spot from the distant area to reduce traffic and user can know the availability of parking space in advance.

### Identification of weeds in sesame crop field using Image Processing

May 2022

- Designed a weed detection system with help of YOLO v4 with its backbone network as CSP Darknet53.
- Developed the system with the help of YOLO (You Only Look Once), which is an object detection system targeted for real-time processing.
- The programming language used is PYTHON, And the project is done using Google Collaboratory.

### Solar Power Generation

Aug 2021

- Designed a working theoretical model of the Solar Power Plant Generation.
- This project followed 3 major steps:
  - Making Optimal cost estimations.
  - Solar Power Prediction Model.
  - Load Flow analysis of the power plant over-night.

## Accomplishments

1. Published a research paper in the International Journal of Advance Research in Science and Engineering on the topic “IDENTIFICATION OF WEEDS IN SESAME CROP FIELD USING IMAGE PROCESSING”.
2. Have PCAP: Programming Essentials in Python Certification, and Microsoft Certified: Azure Fundamentals