

# VENKATA SAI SUVVARI

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## EDUCATION

<b>B.Tech in Computer Science</b> , IIT Kharagpur	<b>CGPA:</b> 9.05	2024
<b>CBSE, Class-12</b> , MP&EV English Medium School	<b>Marks:</b> 91.6%	2020
<b>CBSE, Class-10</b> , MP&EV English Medium School	<b>Marks:</b> 91.6%	2018

## SKILLS AND EXPERTISE

**Programming Languages** C, C++, Python, Java, Java Script, HTML, CSS, Dart  
**Libraries and Framework** Rapid-Xml, Tkinter, Numpy, Pillow, Flask, Jinja2, Flutter, Express, NodeJs, React

## PROJECTS

**TAAS: Travel Agency Automation Software** Developed a web application for car rental agency to organise car bookings, customers managing, car repairs etc., by using **HTML, CSS, JavaScript** for front-end and **Flask, Flask-sqlalchemy** for back-end and databases. Hosted on Heroku cloud application platform.

**Java console app** Developed console based application for managing activities at medical shop using **Java** for making online booking of medicines, adding inventories, managing deliveries etc.

**C++ console app** Developed a console based application that can parse an OSM(open street map) file and store cities and roads with their respective ID's, also locate cities/roads and routes with given substring of names of cities/roads using **C++** and **Rapid XML** library.

**New Python module** Developed a python module for formatting images and applying borderlines colors to the top-3 segmentation of image using **Python** with **numpy, Tkinter, pillow, OpenCV**.

**New C libraries** Developed a static library and a dynamic library similar to **STL** that is built using the language **C** and for the C language. The dynamic library includes **Linked List, Heap, Stack, Queue, Union Find** data types, while the static library includes **Graph** data type.

**Android App** Built an Android app for Reminders to add reminders, check the completed reminders etc, using **Dart** language using **Flutter** library in **Android Studio**.

**MNIST Numbers Clustering** Clustering the MNIST numbers using K-Means clustering algorithm in Machine Learning with accuracy of 74%.

**Regression Tree and Bayesian Tree Models in ML** Building Regression Tree Model for finding Compressive Strength of the material built using a cement given its attributes with 86% accuracy. Also built a Bayesian tree for classifying a person whether a patient or not given the composition of his/her blood & age and gender.

**Unsupervised and Supervised Learning Models in ML** Built an unsupervised learning model for classifying the iris data of flowers given its sepal length, sepal width, petal length, petal width using PCA and K-Means algorithms. Also built a supervised learning model for classifying the iris data using Support Vector Machines, Multi-layer Perceptron and Ensembl learning.

## AWARDS AND ACHIEVEMENTS

- **KVPY Scholar** - Secured all India Rank of **467** in KVPY Scholarship exam - 2018 (SX stream).
- **JEE Advanced** - Secured all India rank **841** in IIT-JEE Advanced 2020-2021.

## EXTRA-CURRICULAR ACTIVITIES

- **Social and Cultural:** National Service Scheme(NSS) Volunter at Indian Institute of Technology Kharagpur.
- **Sports:** Won in carroms tournament and volleyball tournament held in school annual tournaments.