

VENKATA SAI SUVVARI

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EDUCATION

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|---|---------------------|------|
| B.Tech in Computer Science , IIT Kharagpur | CGPA: 9.08 | 2024 |
| CBSE, Class-12 , MP&EV English Medium School | Marks: 91.6% | 2020 |
| CBSE, Class-10 , MP&EV English Medium School | Marks: 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.