

# Vanguri Sandeep Kumar

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To associate with an organization that provides me an opportunity to show my skills, to improve my knowledge with the latest trends and to be a part of the team that works dynamically towards the growth of the organization.

## Projects

### PROTO-Customized AI Assistant for personal Tasks

- To develop an AI assistant to enhance user productivity and efficiency by providing customizable task automation, personalized assistance, and accurate information retrieval.
- Implementing Python libraries including speech recognition and pyttsx3 for analyzing user inputs, enhancing the assistant's ability to comprehend and respond to a wide range of queries with contextual understanding.
- Integrating OpenAI's API, leveraging libraries and requests for seamless interaction with natural language processing capabilities for user-specific content generation.

### Wafer Fault Detecion

- Machine learning project using PyCharm is to identify defects in semiconductor wafers to ensure high-quality chip production and maximize yield based on the information given in .csv file.
- There are two classes: +1 and -1. +1 means that the wafer is in a working condition and it does not need to be replaced.
- Utilized two prominent algorithms, Random Forest Classifier and XG Boost Classifier for defect estimation then evaluated and compared the performance of the models in wafer defect.

## Education

### Bachelor of Technology in Computer Science and Engineering

2020-2024

Hyderabad Institute of Technology and Management | CGPA-7.60

### Higher Secondary Education

2018-2020

Sri Gayatri Junior College (IPE) | CGPA - 9.4

### Secondary Board of Examination

2017-2018

S. T Patrick's High School (SSC) | CGPA - 9.0

## Skills

- **Programming Languages** : C, Python.
- **Web Development Tools** : HTML, CSS.
- **DataBase Languages** : MySQL
- **Tools**: Jupyter Notebook, Visual Studio, Git.

## Achievements

- Winner in Poster presentation competition conducted by IARE on Blockchain Technology.
- Winner in Project Expo conducted by HITAM .

## Languages

- English - Fluent
- Telugu - Native
- Hindi - Moderate