

# Madhu Babu Duggirala

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## EDUCATION

### National Institute of Technology Goa

B.Tech in Computer Science and Engineering

Cuncolim, Goa, India

Aug 2019 - May 2024

### Narayana Junior College

Class 12th, PCM

Vijayawada, Andhra Pradesh, India

Aug 2017 - May 2019

### Sri Chaitanya High School

Class 10th, PCM

Vijayawada, Andhra Pradesh, India

Aug 2016 - May 2017

## WORK EXPERIENCE

### Associate

Show Time Consulting

June 2023 - May 2024

- Successfully handled substantial volumes of data, with a single dataset exceeding Millions in size.
- Engineered and optimized cost-effective data processing pipelines, transforming raw data into structured formats for enhanced analysis and reporting.
- Architected a scalable solution utilizing Azure cloud services for data storage and virtual machine provisioning, ensuring efficient data management and analysis.
- Proficient in Python and Scala for efficient data processing and pipeline development and Apache Spark for scalable and fast data processing.
- Proficiently utilized SQL, to meticulously manage data manipulation and updates, ensuring data integrity throughout the process. Created actionable insights using PowerBI

### Data Science Intern

Personify

Jan 2022 - April 2022

- Developed a high-accuracy CNN model using Python and TensorFlow for digit recognition on the MNIST dataset.
- Built a precise CNN model using Python and TensorFlow to classify images into 10 categories with the CIFAR-10 dataset.

## PROJECTS

### • Intelligent Transport System for Traffic Prediction

Developed a deep learning model using YOLO pretrained weights for real time traffic prediction. Processed large amounts of traffic data to train and fine tune the yolo weights.

Designed and implemented intuitive UI for the model using HTML, CSS, JS. Integrated the deep learning model with the frontend interface, enabling seamless communication between the backend prediction system and the user interface.

Optimized both the model and the frontend interface for efficiency and user experience.

### • Celebrity Image Classifier

Implemented a machine learning model for classifying celebrity images using Numpy and OpenCV for data cleaning, Matplotlib for data visualization, sklearn for model building, and developed a user interface with Python Flask, HTML, CSS, and JavaScript.

## SKILLS

### Languages

C, C++, Python, Java Script

### Frontend

HTML5, CSS, Javascript

### DevOps

Azure Data Factory, Synapse, Databricks

### Bigdata

Pyspark, Scala

### Visualisation tools

Power BI, Matplotlib

### Database

T-SQL, MySQL, PostgreSQL

### Tools

Git, Docker, VS Code, Latex, Azure data studio, Linux commands, Microsoft Office