






# Thota Manish Kumar

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## About

**I can make your data tell a story.** A Competent AI, Machine Learning, and Data Science enthusiast with good experience in building deploying production-ready models, along with great system Admin, Cloud, DevOps skills. In my professional and personal experience, I have worked on end-to-end analytical project that involved Data Analysis, Data Engineering, Data Visualization, Data Modeling, Machine Learning, Model Deployment, and Analytical Framework Development for solving business problems

## Skills

- \* Python, Pandas, Numpy, SQL, R, Data Analysis, Machine Learning, SQL, Statistics, Hadoop, Data Science, NLP
- \* A/B Testing, Visualization, Excel, JavaScript (React), Telemetry systems, Azure/AWS, VSCode, Pycharm
- \* DevOps, Anaconda. Git/Terminal, Jupyter Notebooks, IDEs, Data wrangling/modeling, SQL Server
- \* MongoDB, Hadoop, Spark/PySpark, Postman, PowerBI, GCP

## Education

### SRM IST

Master's in Big Data Analytics - 9.8/10 GPA

**Chennai, India**

Sep 2020 - May 2022

### IIIT-B

Post Graduate Diploma in Data Science - 3.25/4 GPA

**Bangalore, India**

May 2020 - April 2021

### Karunya University

Bachelor's in Computer Science and engineering - 8.45/10 GPA

**Coimbatore, India**

June 2016 - May 2020

## Experience

### Stryker Corporation

PGET - New Product Development APAC

**India**

July 2022 - Present

- Optimised SQL queries for fetching 10 million plus telemetry data points on azure cosmos db for SmartMedic device back-end.
- Worked closely with stakeholders in the APAC region by exploring new possibilities for product development by analyzing the past data
- Developed the entire production setup on azure platform that generates up to 10 million plus telemetry data points for the product SmartMedic

### Stryker Corporation

RD Intern

**India**

July 2021 - May 2022

- Automated audit Logs for Nurse Station application and Setup of Architectural components for Nurse station Application on Azure platform.
- Integrated Azure DevOps CI/CD pipelines and cloud infrastructure for IOT, Analytics and code base.
- Collaborated with an agile team of 15, and incorporated API calls in SmartMedic, and stored data efficiently in Azure Cosmos DB using python
- Offered full-time position - PGET (Post Graduate Engineering Trainee) at the end of my internship.

### VERMA GmbH

Data Scientist - (Freelancing)

**India**

Feb 2021 - June 2021

- Worked within teams of creative freelancers on a computer vision problem statement where I built a document forgery mechanism using computer vision and statistical techniques
- Worked closely with the back end team and Incorporated the tool as a chrome plugin that was serving for more than 1 million requests

## Research

DiGi Vision for Blind Using Deep Learning Techniques | ICRITCSA

April 2022

## Projects

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### **Wafer Fault Detection using Machine Learning**

- Built an end-to-end machine learning pipeline from data ingestion to generating predictions if a wafer (thin slice of semiconductor used for the fabrication of integrated circuits) is faulty and needs to be replaced or not and based on the sensor data, later hosted on cloud

### **Customer Data Analysis and A/B testing of a mobile app**

- Analyzed large amount of customer data and performed A/B testing over for finding out the responsible KPI's and reasonable hypothesis

### **E-Traffic Management using Computer Vision**

- Built a vehicle count model that takes an input of the path of the video and two coordinates (these coordinates are used to create a line you have to count the vehicles crossing this line) using YoloV3 tiny and OpenCV.
- The sequence of frame pre-processing techniques includes Gray scaling, Gaussian blurring, Foreground masking, Kernel, Dilate layering, MOG/KNN/absdiff, Dilating, Finding contours that could give the best result.

### **TalkInEnglish (NLP - Machine translation)**

- Implemented a deep neural network for an end-to-end machine translation pipeline for an English to Telugu translation.

## Achievements

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### **President Award**

- Received president award in bharat scouts

### **IAESTE**

- Head Corporate Relation

### **AI-900**

- Microsoft Azure Artificial Intelligence Certificate

### **LxMLS**

- Got selected for LxMLS 2021 (Lisbon Machine Learning Summer School)

### **Martial Arts**

- Black belt in martial arts

## Languages

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English, Telugu, Tamil, Hindi

## Hobbies

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Cooking, Swimming, Dancing, Soccer