

Pusthakala Dharan Tej

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EDUCATION

Keshav Memorial Institute of Technology, (JNTUH)

Bachelor of Technology (B.Tech.)

Computer Science and Engineering

Hyderabad

2019-2023

GPA: 8/10

WORK EXPERIENCE

TEKsystems Global Services

[Associate Software Engineer - Global Data Engineering]

Dec'23 – Present

Defence Research & Development Organisation (DRDO), Research Centre Imarat (RCI), India

[Software Engineer Intern]

May'23 – Dec'23

- **Avionics Test-bed Automation** - Automated and enhanced precision in Avionics Test-bed using Python, optimizing projectiles testing.
- **Altair Embed** - Model Based Software Development
- **LDRA** - Static and Dynamic Analysis of Legacy Code for MISRA coding standards using LDRA Tool
- **ZynqSoC Testing** - Development and Testing of embedded applications on ZynqSoC.
- MIL Standard 1553 Communication Protocol Implementation and Testing
- Hands-on experience with Embedded Boards: ARM-I.MX8, Zynq Ultra-Scale and MIL-STD 1553 Interface Board

TEKsystems Global Services

[Data Engineering – Data Insights Intern]

Feb'23 – May'23

Training and Optimising Machine Learning Models on GCP for Natality Dataset

- **Data Prep** - Preparing the Natality dataset for analysis and model training.
- **Big Query Analysis** - Analysing the dataset using Google BigQuery to extract insights.
- **VPC Networks** - Setting up Virtual Private Cloud networks for secure data handling.
- **GCS** - Storing and managing data using Google Cloud Storage.
- **Data Proc** - Utilising Google Cloud Dataproc for processing large-scale data.
- **Big Query ML** - Creating machine learning models within BigQuery for predictive analysis.
- **Looker** - Utilising Looker for data visualisation and exploration.
- **Tableau** - Employing Tableau for creating interactive visualisations based on the analysis results.

PROJECTS

Low Light Image Enhancement - Developed a Convolutional Neural Network system for enhancing low-light images, improving object detection and scene understanding, while preserving original image content.

Future Scope: Expanding from the developed CNN system for low-light image enhancement and object detection, its integration into video processing holds promise for real-time improvements in low-light video quality, enhanced object recognition, and broader applications in fields such as surveillance and autonomous vehicles.

Water Quality Analysis using ANN - This Flask application is designed to Accurately Predict the Potability of the given sample of water with 98% accuracy with the help of Deep Learning Model (Artificial Neural Networks).

Crop Type Prediction using Machine Learning - Provides information to cultivate the best food crop based on Soil type, Temperature, Humidity and Rainfall in that area.

Pi-NAS - A Raspberry-Pi based Network Attached Storage which makes wireless file transfers easier across your home network using OMV (Open Media Vault based on Debian Linux).

COURSES & CERTIFICATES

[The Joy of Computing using Python, NPTEL](#)
[Data Science for Engineers, NPTEL](#)

[Deep Learning, NPTEL](#)
[Social Networks, NPTEL](#)

SKILLS

Languages: Python, C, C++, Java

Tools/Framework: NumPy, Pandas, GitHub

General: Data Structures, Algorithms, Machine Learning, Internet of Things (IoT), Linux, GCP, AWS

EXTRACURRICULAR

- Achieved a perfect score (30/30) in the [Australian National Chemistry Quiz \(ANCQ\)](#) conducted by the [Royal Australian Chemical Institute \(RACI\)](#) in 2016, earning a Certificate of Class Excellence and ranking within the [Top 50 students across India](#).
- Additionally, secured a high percentile score of [96%](#) in a [National Level E-Quiz on Chemistry](#), organised by the [Department of Physical Sciences, Kakatiya Institute of Technology and Science, Warangal](#) in June 2020.
- YouTuber - Content Creation on YouTube for Education and Gaming
[Delta Edusmith](#) (1.43K Subscribers)
[Delta Gamesmith](#)
- Served as a [Video Editing Head](#) for KMIT's Drama Club 'Abhinaya'
[Abhinaya The Drama Club](#).
- Contributed to the 'Traces of Lenses' [Photography Club](#)
- Content writer at [Blogger.com](#).