



ABINASH PARIDA
Roll No.: 22PHC1R05
Current Course: M.Sc.(Tech.)
Specialization: Electronics
National Institute of Technology, Warangal

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc (Tech.)	National Institute of Technology, Warangal	7.06 (Current)	2022-Present
B.Sc. (Physics)	Utkal University	8.50	2018-2021

EXPERIENCE

- ML & DL Trainee** *Internship Certificate*
CSIR-Central Scientific Instruments Organisation, Chandigarh *May 2024 – July 2024*
 - Engineered DFU Saarthi, a healthcare app for diabetic foot ulcer patients, integrating predictive modeling from thermal images using deep learning models, achieving 99.234% accuracy with ResNet50, outperforming all other models.
 - Received **Copyright** on DFU Saarthi from the Copyright Office, Government of India. *Copyright Certificate*
 - Tools & Technologies:** Kotlin, Firebase, XML, Android Studio, Pretrained Models (ResNet50, VGG16).
- Python Intern** *Internship Certificate*
National Institute of Science Education and Research, Bhubaneswar *May 2023 – July 2023*
 - Conducted research on quantum computing, reproducing discrete-time quantum walks.
 - Tools & Technologies:** Python, NumPy, Pandas, Matplotlib, Seaborn, Qiskit.

PERSONAL PROJECTS

- Self Driving Car** *GitHub Link / Video Demo*
National Institute of Technology, Warangal *Nov 2024*
 - Built an autonomous steering system using NVIDIA's self-driving car simulator, predicting real-time steering angles from road images.
 - Tools & Technologies:** Python, Keras, TensorFlow, OpenCV, Flask, SocketIO.
- Hand Gesture-Driven Math Solution Tool** *GitHub Link / Video Demo*
National Institute of Technology, Warangal *Oct 2024*
 - Created an interactive application that allows users to solve math problems through hand gestures using OpenCV for video processing and a generative AI model for answers.
 - Tools & Technologies:** OpenCV, cvzone, Google Generative AI, Streamlit, NumPy, PIL, Python, PyCharm.
- Hand Gesture-Controlled Volume Adjustment** *GitHub Link / Video Demo*
National Institute of Technology, Warangal *Sep 2024*
 - Developed a real-time hand gesture recognition system to control laptop volume, tracking hand landmarks and adjusting volume based on the distance between the thumb and index finger, with visual feedback on a volume bar
 - Tools & Technologies:** OpenCV, Mediapipe, Pycaw, NumPy, Python, PyCharm.
- Car Parking Space Detection** *GitHub Link / Video Demo*
National Institute of Technology, Warangal *Aug 2024*
 - Implemented a computer vision system to detect free parking spaces in real-time, analyzing video feeds from parking lots. The system marks free spaces in green and occupied spaces in red, while counting available spots dynamically.
 - Tools & Technologies:** Python, OpenCV, cvzone, NumPy, PyCharm, Pickle.
- Movie Recommendation System** *GitHub Link / Video Demo*
National Institute of Technology, Warangal *Jul 2024*
 - Constructed a movie recommendation system that suggests movies based on users' previous preferences, leveraging collaborative filtering techniques.
 - Tools & Technologies:** Python, NLTK, scikit-learn, NumPy, Pandas, EDA, Pickle, PyCharm, Streamlit, GitHub.

SKILLS

Programming Languages: Python, SQL, C++, Kotlin.

Data Analysis & Visualization: Exploratory Data Analysis (EDA), Tableau, Matplotlib, Seaborn.

AI & ML Frameworks & Libraries: PyTorch, scikit-learn, TensorFlow, Keras, NumPy, Pandas, OpenCV.

Cloud Services & Web Development Tools: Streamlit, Firebase, Git LFS.

Mathematical Tools: Statistics, Matrix Operations, Linear Algebra, Calculus, Hypothesis & A/B Testing, Probability.
Statistical Modeling & Predictive Analytics: Linear Regression, Logistic Regression, Support Vector Machines (SVMs), Decision Trees, Naive Bayes; Ensemble Methods(Bagging, Boosting, Voting, Stacking); PCA, K-means Clustering, SVD; Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNNs: LSTM, GRU), Transformers.

Miscellaneous & Soft Skills: MySQL, Excel, PowerPoint, Database Management Systems (DBMS), Effective Communication, Analytical Thinking, Team-Collaboration and Finance.