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Yatharth Singh

Technical Skills: Python, SQL, C++, Machine Learning.

Certifications: Applied Machine Learning in Python (Coursera), Microsoft Azure AI Fundamentals (AI- 900).

Course: Fundamentals in Data Analytics (Future Skills Prime), Data Science (Board Infinity).

EDUCATION

Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE) AIML	Sep 2020 –Ongoing	VIT Bhopal University	7.86
Class XII	Apr 2020	Krishna Public School, Chhattisgarh	84.8%
Class X	Apr 2018	Krishna Public School, Chhattisgarh	82.8%

ACADEMIC PROJECTS

Deep Learning	<ul style="list-style-type: none">• Human Activity Recognition (Jan 2023 – Jul 2023)<ul style="list-style-type: none">- Description: Engineered Convolutional Neural Networks (CNNs) in the Human Activity Recognition project, achieving an impressive accuracy of 92% in accurately recognizing and categorizing diverse human activities.- Ensured extensive coverage and robust performance by training the model on a comprehensive dataset of 13,320 videos, providing a broad range of examples for training.- Leveraged the power of CNNs for efficient feature extraction and classification, achieving a classification accuracy of 95% and improving performance by 30% compared to traditional methods.- Technology: OpenCV, TensorFlow, and PyTorch.- Individual Project.
Deep Learning	<ul style="list-style-type: none">• Emotion-Face Detection (Dec 2021)<ul style="list-style-type: none">- Description: Achieved an outstanding accuracy of 92% in emotion detection using a facial expression CNN model.- Trained the model on a diverse dataset of 10,000 facial images, ensuring comprehensive coverage of emotions.- Demonstrated the effectiveness of the CNN model by accurately classifying emotions such as happiness, sadness, anger, and surprise with a validation accuracy of 92%, outperforming previous approaches by 15%.- Technology: OpenCV and deep learning.- Team Project: 3 members.- Role: Machine Learning (Data Preprocessing and Model Training).

INTERNSHIP

Smart Bridge (Jun 2023 - Jul 2023)	<ul style="list-style-type: none">• Virtual Eye-Lifeguard:<ul style="list-style-type: none">- Implemented cutting-edge solution for swimming pools, achieving real-time detection of active drowning incidents, and reducing response time by 90%.- Utilized YOLOv5-based application with advanced object detection algorithms, resulting in the identification of 70% potential drowning situations.- Conducted workload assessments, optimizing operational processes, and achieving a notable 40% increase in productivity, ensuring swift response measures, and maximizing swimmer safety.- Role: Machine Learning (Image Annotation, Model Training and Testing).
Spice Money Pvt Ltd. (Jul 2022 - Aug 2022)	<ul style="list-style-type: none">• Fraud Payment Prediction:<ul style="list-style-type: none">- Gathered, cleaned, and organized 30-day transactional data for the Fraud Payment Prediction project, ensuring 98% data collection accuracy.- Developed and applied data preprocessing techniques, resulting in a 15% reduction in data errors.- Contributed to the project's success by providing a dataset with 85% feature completeness, improving model training efficiency.

CO-CURRICULARS

Coding	Leetcode -6,55,440.
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EXTRA-CURRICULARS AND ACHIVEMENTS

Achievements	<ul style="list-style-type: none">• Smart India Hackathon 22' [AK1091] Winner.
Responsibilities	<ul style="list-style-type: none">• Photography Club, AdvITya 22'.
Extracurricular	<ul style="list-style-type: none">• Artificial Intelligence and Machine Learning workshop (IIT Bombay,) Crypto trading workshop (IIT Bombay).

EXTRA-CURRICULARS

Hobbies	<ul style="list-style-type: none">• Sketching, Cooking, Cycling, Badminton, Skating, and Photography.
Languages	<ul style="list-style-type: none">• English, Hindi

