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Yash Pame

Data Scientist

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As an AI and Data Science Engineer, I specialize in AI, LLMs, Generative AI, Deep Learning, and Programming. My expertise spans NLP to computer vision, with a track record of impactful projects. A quick learner and critical thinker, I excel both independently and in teams. Proficient in LLMs, ViTs, and Neural Networks, I focus on preprocessing and model optimization for high accuracy. Driven by innovation, I aim to make a real-world impact as a Data Scientist and Machine Learning Developer. My skills are proven through internships, projects, and research detailed below.

EDUCATION

BE Artificial Intelligence and Data Science, DY Patil College of Engineering Pune

2020 - 2024

Aggregate CGPA: 9.58

HSC 12th, AUB High School and Jr College

2020

Percentage: 74%

CBSE 10th, Vishwshanti Gurukul School

2018

Percentage: 85.8%

SKILLS

Languages & Databases

Python, C++, SQL, MongoDB

ML/DL Frameworks

TensorFlow, Keras, Scikit-Learn, NLTK, PyTorch

Backend Frameworks

Flask, FastApi

Tools

MySQL, HuggingFace, Git, GitHub, MS Excel, PowerBI

Soft Skills

Leadership, Critical Thinking, Problem Solving, Project Management, Communication

AI/ML Skills

Artificial Intelligence (AI), Generative AI, Large Language Models (LLMs), Neural Networks, Natural Language Processing (NLP), Computer Vision, Vision Transformers (ViTs), Machine Learning, Deep

Learning

TECHNICAL EXPERIENCE

Graduate Trainee Engineer - GenAl

Sep 2024 — Present

NTT Data

Pune

- Currently undergoing training at NTT Data with a focus on Generative AI, Azure, and emerging technologies.
- Developing expertise in cloud computing and Al-driven solutions through hands-on projects and advanced training.

Data Scientist, Internship + Full Time

Mar 2024 - Sep 2024

Pivotchain Solution Technologies Pvt Ltd

Pune

- Contributed to projects within the computer vision domain, focusing on the development of AI-driven software aimed at enhancing security measures.
- Worked on the Raven-AI Shield and Raven-AI Spirit projects, focusing on video surveillance and automated security features.
- Utilized synthetic data generation techniques with Stable Diffusion and RealVIZ XL and employed multi-modal transformers,
 CLIP, LLava, and LLAMA frameworks to develop a video search model capable of detecting events and individuals in long CCTV footage.
- Assisted in backend API development, including the integration of a payment gateway onto the company website.

Data Analytics, Internship

June 2023 — July 2023

Government of India, National Informatics Center

Delhi

- Contributed to the TejasVI tool, a visualization platform for the Government of India.
- Developed a robust and accurate generic forecasting model adaptable to any dataset, outperforming ARIMA and Prophet in 70% of tested datasets.
- Created a rule-based natural language to SQL converter, allowing users to query data using natural language inputs.

Algorithm Developer & Data Analyst, Internship

Oct 2022 - May 2023

Benign Capitals

Remote

RESEARCH AND PUBLICATIONS

A Novel Approach To Maze Solving Algorithm

April 2023

5th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2023)

View Paper

A Novel Approach to Improve User Experience of Mouse Control using CNN based Hand Gesture Recognition 7th IEEE International Conference on Computing, Communication, Control and Automation (ICCUBEA-2023)

January 2024 View Paper

PROJECTS

Adaptive SignalSense

BE Final Year Project

- Developed an AI-based solution to dynamically optimize traffic signals based on real-time traffic density, addressing congestion and inefficiency in high-traffic areas.
- Utilized computer vision techniques to detect traffic density by analyzing vehicle interactions with a virtual green canvas superimposed on road areas from camera feeds, providing a cost-effective and practical solution for real-world deployment.
- Implemented a dynamic signal adjustment system that fine-tunes signal timings using graph optimization algorithms, creating a comprehensive city-wide signal and road graph to ensure synchronized and efficient traffic flow.
- Enhanced traffic management by alleviating congestion, improving traffic flow, and reducing energy consumption, with a focus on the unique challenges of Indian road networks, and potential applications for smarter urban transportation systems globally.

FutureVision

Government of India, National Informatics Center

- Developed a robust forecasting model seamlessly integrated with the Government of India's Tejas VI visualization tool, demonstrating expertise in merging predictive analytics with real-world applications.
- Designed a versatile model capable of effectively handling diverse datasets, ensuring accurate and timely forecasted outcomes through meticulous data analysis and model refinement.
- Employed efficient algorithms and optimization techniques to achieve swift and accurate forecasts, contributing to minimized processing time and enhancing the tool's overall performance.
- Outperformed Prophet, ARIMA, Exponential Smoothing, and LSTM in over 70% of cases

Lang2SQL

Government of India, National Informatics Center

Best Outgoing Student, AI&DS Department, DYPCOE

- Developed and integrated Lang2SQL, a rule-based ML model for natural language to SQL conversion in TejasVI, the Government of India's visualization tool.
- Demonstrated proficiency in enabling intuitive querying of files and databases through Lang2SQL, showcasing expertise in handling SQL clauses such as SELECT, FROM, WHERE, GROUP BY, HAVING, ORDER BY, and LIMIT.
- Lang2SQL's exceptional performance surpasses multiple open-source models, including Table QA and various small sized pretrained models on platforms like Hugging Face.

ACHIEVEMENTS

Team DRAIC Secured 6th position in category of Robo Race among 180 teams from 7+ countries.	
Runner Un SPPU Rollhall Championship	Mar 2022
Runner Up. SPPU Rollball Championship	Mar 2022
Runner Up, SPPU Rollball Championship	Mar 2022
POSITIONS OF RESPONSIBILITY	

Feb 2024

COURSES AND SPECIALIZATIONS

Machine Learning Specialization	3 Course Specialization Duration: 3 Months View Certificate
Google Data Analytics	8 Course Specialization Duration: 6 Months View Certificate
Tensorflow Developer Professional Certificate	4 Course Specialization Duration: 4 Months View Certificate
Deep Learning Specialization	5 Course Specialization Duration: 4 Months View Certificate
Generative AI with Large Language Models	Duration: 1 Month View Certificate