

Darshit Pithadia

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EDUCATION

Nilkamal School of Mathematics and Applied Statistics-NMIMS, Mumbai, INDIA

Master of Science, Data Science

Courses: Big Data, Deep Learning, Cloud Computing, Generative AI, NLP, Computer Vision

May 2023-Aug 2025

GPA-3.96/4.0

Anasaheb Vartak College of Arts, Commerce and Science, Palghar, INDIA

Bachelor of Science, Information Technology

Courses: Introduction to Python, Object Oriented Programming, OS, Python Programming, Data Structures, Artificial Intelligence

Aug 2020-April 2023

GPA-9.37/10.0

TECHNICAL SKILLS

- **Interests and Domain:** Neural Networks, Machine Learning, NLP, Time Series, Deep Learning, Generative AI, Computer Vision
- **Frameworks and Tools:** Flask, Django, LangChain, Streamlit, Gradio, Docker, AWS (S3, EC2, SageMaker), Git, REST API, Fast API
- **Databases and QL:** MySQL, MongoDB, Neo4j, AWS RDS
- **Languages and Libraries:** Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, BeautifulSoup, Playwright, OpenCV
- **Visualization & BI :** Matplotlib, Seaborn, Plotly, Power BI, Tableau

WORK EXPERIENCE (INTERNSHIPS)

• Data Science Intern | Worley, Navi Mumbai, India

Jan 2025- June 2025

- **Model Development :** Developed an index using fine-tuned models via LangChain, deployed on cloud (AWS) for fast inference.
- **Text to CAD:** Explored AI models and custom Pipeline solutions that convert textual descriptions into high-quality, detailed CAD assets for diverse digital applications.
- **VIT Transformer:** Fine-tuned Vision Transformer (VIT) models for precise image classification, optimizing performance for real-time inference using Pytorch
- **Built a Custom Pipeline** to prepare the Dataset for Fine-Tuning which included ingest, clean, augment and version 100k samples for Training and Evaluation

• Machine Learning Engineer(Lead Team Member)| Branding Catalyst, Mumbai, India

April 2024-July 2024

- **Drove R&D digital-technology initiatives,** architecting end-to-end LLM solutions for document scanning.
- **Automation:** Independently Automated inference pipelines using Large Language Models (LLMs), cutting response times by 70%+ versus legacy methods through optimized preprocessing and model serving.
- **Deep Learning:** Collaborated on a detection model for objects and poses using OpenCV and PyTorch, enhancing real-time accuracy.
- **Machine Learning:** Fine-tuned LLMs with Lang Chain & Unsloth, boosting precision by over 70% compared to base and instruction-tuned variants.

• Data Analyst Intern(Team Member) | ChefAtHome LLP, Remote

May 2022-Oct 2022

- Worked in the team of Research and Marketing to provide Insights
- **Insights -** Applied my skills to learn about market research which gained insights and created a data-driven strategy that helped in the further development of the Business
- **Data Scraping-** Demonstrated proficiency in Data Scraping with Python Libraries (Beautiful Soup & Selenium) extracting info over 2500 Chef's Emails which helped in Collecting Data for further Processing
- **Statistical Analysis-** Applied Statistical technique for the duplicated data(Outdoor data) which provided insights for on other Companies

ACADEMIC PROJECTS

• WearWiz Web App | Python, Flask, Groq API, Fast API, Image Classification & Segmentation

Developed a styling assistant web app using Flask and Groq API, providing AI-based outfit recommendations and virtual wardrobe features

• Mental Health Therapy Counselling | Python, Generative AI, Hugging Face, Fine-Tuning, Streamlit , Ollama

Created a Streamlit app generating mental health content using a fine-tuned Quantized Open-Orca Mistral model, optimized for GPU performance

• Fire Alarm Detection using Audio and Images | Python, Supervised ML, Pandas, TensorFlow, NumPy, Computer Vision

Built a Detection System which has been trained on Fire Images and Screaming Audio of Humans providing Input and triggers Fire Alarms in Residential and Commercial Areas

• AI Based Recruitment Assistant | Python, Hugging Face, Supervised ML, Replicate API, Streamlit, Neural Networks

Developed an AI System which analyzes and provides Scores during an Interview based on Multiple Factors such as Speech Analysis, Facial Recognition and Speech-To-Text.

• New York Subway Forecasting | Time Series Forecasting , Python, LSTM, ARIMA

Forecasted Subway passenger flow (Time Series) Project which allows to analyze the New York Subway Trains including the complete Analysis of LSTM and other Models to predict Entry and Exit Time

• PUBG Analysis | Python, Machine Learning Models, Data Preprocessing, Statistical Analysis

Analyzed PUBG Gameplay Match Statistics which identified the Analysis of Players and In-Game Statistics includes some processes applying Machine Learning Models and evaluating using various Metrics

• Enterprise Knowledge Assistant | Python, CrewAI , Playwright, RAG, Streamlit, NLP, Langchain, BeautifulSoup, FAISS,

Developed an AI-powered enterprise knowledge management system at Worley, using a Playwright and BeautifulSoup-based web crawler for dynamic data extraction and NLP for semantic categorization implementing multi-Agent RAG pipeline enhancing efficiency providing context-aware query responses across various diverse domains

LEADERSHIPS AND ACTIVITIES

- **Vice President Of Placement Cell-** Facilitated industry connections, enhancing placement opportunities by building relationships with HR and talent acquisition professionals.
- Led a team to secure 1st place in Hack-A-Stat, developing a data science solution under time constraints.
- **Participated in multiple AI/ML-focused hackathons,** developing rapid prototypes and solutions for real-world problems across healthcare, NLP, and computer vision domains.
- **Hobbies** are Video Editing, Tech Enthusiast, Gamer, Content Creation