Chandekar Dhruvin

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CAREER OBJECTIVE

Aspiring AI/ML professional with a strong foundation in Python, SQL, and advanced data analysis techniques. Passionate about leveraging machine learning and generative AI to develop innovative solutions. Experienced in deep learning, image processing, and model optimization, with hands-on projects in satellite image enhancement, predictive analytics, and large language models (LLMs). Seeking an AI/ML internship to apply my skills in model development, data preprocessing, and AI deployment while staying updated with the latest advancements in artificial intelligence.

EDUCATION & CERTIFICATIONS

Aditya Silver Oak Institute of Technology **CGPA : 8.53**

B.Tech Computer Engineering

2021-2025

Royal Technosoft P. Ltd.

Professional Data Scientist Course
Jun 2023 - Present

SKILLS

- **Programming Languages**: Python, Java
- **Databases:** SQL, Advanced SQL, PostgreSQL, MySQL Workbench, Oracle Live SQL
- **AI/ML Tools**: Google Colab, Jupyter Notebook, PyCharm, VS Code
- **Data Analysis & Visualization:** MS Excel, Pandas, NumPy, Matplotlib, OpenCV
- **Machine Learning & AI:** Scikit-Learn, Large Language Models (LLMs)
- **Project Management & Collaboration:** JIRA

PROFESSIONAL EXPERIENCE

Wappnet Systems Pvt Ltd

AI/ML Research Intern **Jan 2025- Present**

- Developed an AI-powered chatbot that integrates Gemini LLM and stores user conversations in PostgreSQL for session persistence.
- Worked with JIRA for project management and issue tracking.
- Optimized SQL queries for large datasets, improving query efficiency and database performance.
- Explored Python fundamentals and best practices for scalable AI solutions.

Sftwtrs.ai

ML Research Intern **Oct 2024 - Dec 2024**

- Developed an AI-driven blog generation tool, leveraging **Hugging Face** models for automated content creation.
- Utilized **Supabase** for database management, user authentication, and real-time blog storage.
- Collaborated with a cross-functional team to integrate APIs and improve user experience.
- Contributed to enhancing the efficiency of content generation, enabling users to produce high-quality blogs with minimal input.

ISRO (Indian Space Research Organization)

Research Intern at SAC, ISRO **June 2024 - Nov 2024**

- Researched the evolution of remote sensing image fusion for modern cartographic applications.
- Implemented classical methods (BT, IHS, PCA) and MRA techniques (SFIM, HPF) to enhance spatial and spectral fidelity.
- Developed **deep learning** models using **CNNs** to improve fusion accuracy across diverse datasets.
- Utilized **OpenCV** for **image preprocessing** and algorithm development, enabling efficient processing of satellite imagery.
- Collaborated on **AI/ML-driven fusion techniques** for disaster management, urban planning, and environmental monitoring.
- Contributed to creating high-resolution fused datasets for real-time cartographic outputs.

Oasis Infobyte

Data Analyst Intern **May 2024 - June 2024**

- Completed various project-based assignments as part of a virtual internship.
- Enhanced data analysis skills through practical projects.

PROJECTS

MediCure – AI-Powered Medical Chatbot

- Developed an AI-powered chatbot that extracts medical knowledge from PDFs, stores structured data in Pinecone, and uses Gemini LLM to provide intelligent responses. Integrated PostgreSQL to retain chat history across sessions.

Key Features:

- **PDF Data Extraction** – Processed and chunked medical book data.
- **Vector Search with Pinecone** – Efficient retrieval of relevant content.
- **Gemini LLM Integration** – AI-based responses to medical queries.
- **Persistent Chat History** – Stored and retrieved conversations from PostgreSQL.
- **Tech Stack** : Python, FastAPI/Flask, PostgreSQL, Pinecone, Gemini AI

Retail Store Data Analysis

- Conducted exploratory data analysis (EDA) on retail sales data, uncovering gender-wise purchasing trends and product category performance. Identified seasonal low-sales periods and recommended targeted marketing strategies to boost revenue. Proposed promotional campaigns for electronics and beauty products to drive engagement during off-peak months.

- **Tech Stack**: Python, Pandas, NumPy, Matplotlib, Seaborn

House Price Prediction

- Developed a linear regression model to predict house prices based on key features, demonstrating expertise in data preprocessing, feature selection, and model training. Evaluated model accuracy using Mean Squared Error (MSE) and R-squared, achieving high predictive performance. Applied data visualization techniques to illustrate trends, making insights more interpretable for stakeholders.

- **Tech Stack:** Python, Scikit-Learn, Pandas, Matplotlib

ACHIEVEMENTS

Evolution and Recent Trends of Image Fusion Techniques for Cartographic Applications

Presented at **INCA-44** (International Congress organized by the Indian National Cartographic Association), hosted by **Survey of India**, October 23-25, 2024.

- Presented research findings on advancements in image fusion techniques for remote sensing and cartographic applications.
- Discussed classical (BT, IHS, PCA) and MRA (SFIM, HPF) techniques, along with deep learning-based approaches for improving spatial and spectral fidelity.
- Highlighted applications in disaster management, urban planning, and environmental monitoring.