Akanksha Palve

Entry Level Data Scientist

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About Me

As a passionate data science apprentice, I'm driven by curiosity and a commitment to discovering valuable insights. With a foundation in analytics, I enjoy applying statistical methods and machine learning techniques to extract meaningful insights from complex datasets. I'm excited to dive into projects that harness the power of analytics to fuel innovation.

Education

B.E in Artificial Intelligence and Data Science **2025**
P.E.S Modern College of Engineering, Pune

Higher Secondary Education(PCM) **2021**
Army Public School, Ahmednagar

Secondary Education **2019**
Army Public School, Ahmednagar

Technical Skills

Primary Skills:

- **Competencies:** Machine Learning, Deep Learning, Natural Language Processing, Generative AI
- **Programming Languages:** Python, SQL, C++
- **Python/ML Packages:** Scikit-Learn, Pandas, Matplotlib, Numpy, Seaborn
- **Python Frameworks:** Django, Flask and Streamlite
- **Deep Learning:** Neural Networks, Transfer Learning, ANN, CNN, Keras, Yolo
- **GenAI:** RNN, LSTM, RAG, Transformers, Large Language Models, LangChain Framework
- **Databases:** MySQL, MongoDB
- **Tools**: GitHub, Gitlab, Excel, PowerBI, AWS
- **Web Scraping:** Beautiful Soup

Secondary Skills:

- **Web Technologies:** HTML, CSS
- **Language :** PHP

Project

Safety Nxt

- Developed a **complete software solution** to **road safety** challenges**,** including **Accident Detection (82.09% accuracy), Potholes Detection (84% accuracy)** and **Traffic Detection (76% accuracy)** using **Transfer Learning.**
- Integrated an interactive map providing users with real-time updates on traffic congestion, potholes, and accidents along their route, enhancing situational awareness and driving safety.
- This system is powered by **Django,** utilizing **class based views** and **allauth** for efficient development and secure user registration/authentication.
- Tech Stack: **Python | Computer Vision | Deep Learning | Django | Leaflet.js | MySQL | Transfer Learning | GitHub | YOLO**

GestureFlow

- A Python-based project enables **interactive control** of presentation slides through **hand gestures** captured via a webcam utilizing **Computer Vision** and **Gesture Recognition.**
- Innovatively utilized **Computer Vision** and **Gesture Recognition** to redefine **presentation interaction** by creating a Dynamic**, Hands-free platform** for **slide navigation and annotation.**
- Tech Stack**: Python | Scikit Learn | Machine Learning | NumPy | Pandas | NLP | Flask | GitHub**

Lane Line Detection

- The lane lines can be detected in **real-time** using **computer vision** to automatically identify and track the **lane boundaries** on a road using visual information captured by a **camera** mounted on a vehicle.
- Tech Stack: **Python | OpenCV | Matplotlib | Numpy | Conda | GitHub**

Achievements

- Finalist of **All India Women Hackathon.**
- **Golden Badge** in **Python** and **SQL** on Hackerrank
- Solved **150+ problems** on Different platforms.