

ADITYA NILESH JOSHI

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Professional Summary:

Results-driven Data Professional with practical experience in Python programming, database design and management, RESTful API development, and data visualization. Proficient in leveraging frameworks and tools such as Django, Streamlit, PowerBI, and AWS to build scalable, data-driven applications and solutions.

Technical Skills:

Programming Languages (Rectified): Python, R, SQL, JavaScript, HTML, CSS, PHP **Frameworks & Libraries:** Django, Flask, React, Pandas, NumPy, OpenCV, NLTK
Databases: MySQL, MongoDB **Tools & Platforms:** Git, GitHub, Linux, Docker, PowerBI, Tableau, Streamlit, WordPress

Work Experience:

Associate Process Executive (Full-Time)

Randstad-- deputed to NVIDIA GRAPHICS PRIVATE LIMITED – Remote-Pune, Maharashtra, India

Oct 2025 – Present

- Worked on **LiDAR-less mapping projects**, processing and validating 3D road and environmental data for autonomous driving systems.
- Performed **EGM 4D Free Space mapping and validation**, ensuring accurate representation of drivable and non-drivable zones.
- Analyzed geospatial datasets to detect inconsistencies and improve map quality and precision.
- Conducted quality checks and ensured compliance with project-specific standards and SLAs.
- Collaborated with cross-functional teams to resolve mapping errors and optimize workflow efficiency.

Python Developer (Intern)

Research in Flying Motion – Hybrid-Chhatrapati Sambhajnagar, Maharashtra, India

Oct 2023 – May2025

- Collected and Labeled an **Aerial view Data** of cotton plant (many more in future) for Training so, that the model can identify and spray at the damaged or infected parts only.
- Built and maintained backend systems for Android and web applications using **Python** and **Django**.
- Created and enforced **RESTful APIs** with **Django REST Framework (DRF)**; managed **PostgreSQL/MySQL** databases and optimized SQL queries for performance and data accuracy.
- Version control using **Git** and established structured workflows (e.g., **Git Flow**) to improve collaboration and minimize merge conflicts.
- Deployed containerized applications with **Docker**, enhancing scalability and ensuring consistent environments across development and production pipelines.

Gen AI & LLM Associate (Intern)

Samaadhaan – Remote-Telangana, India

Jul 2023 – Oct 2023

- Produced and optimized multimedia content (text, images, videos) using generative AI tools, maintaining brand consistency and ensuring cross-platform alignment.
- Extracted actionable insights from large datasets by leveraging Large Language Models (LLMs) for content strategy and audience targeting.
- Curated domain-specific datasets and applied prompt engineering techniques to assist in fine-tuning LLMs, increasing task-specific model accuracy.
- Reduced hallucinations in AI-generated content by refining prompts and supporting model retraining efforts in collaboration with senior team members.
- Supported design and implemented generative AI pipelines to streamline creative workflows and enhance automation capabilities.

Projects:

Dataset Analyzer Web Application

Tech Stack: Streamlit, Pandas, NumPy, Matplotlib, Plotly

- Designed and implemented multiple interactive 3D visualization functions using Plotly, including scatter, surface, bar, line, and bubble charts.
- Added dynamic selection of axes and marker properties, allowing flexible exploration of dataset features.
- Ensured code modularity and maintainability by organizing visualization logic into reusable Python functions.
- Enabled dynamic visualization of CSV datasets, allowing users to select axes and customize plot parameters for deeper insights.
- Created advanced 3D visualizations (scatter plots, bar charts, line graphs) for multi-dimensional data exploration.

Instagram Reels Editor

Tech Stack: Flask, face-recognition, imageio, OpenCV, HTML/CSS

- Developed a Flask-based web application that converts long videos into short reels using MoviePy and PySceneDetect.
- Implemented video upload, automatic scene detection, and reel generation features with a modern, responsive UI.
- Utilized Python, Flask, MoviePy, PySceneDetect, HTML, and CSS for full-stack development.
- Designed a modern, responsive user interface using custom CSS for an enhanced user experience across devices.
- Enabled users to upload videos, select processing options, and download generated reels directly from the web app.

Data and Text Extraction in NLP

Tech Stack: Python, BeautifulSoup, NLTK, Excel

- Developed a web scraping tool to extract article titles and text from URLs listed in Excel files.
- Processed extracted text using NLTK to compute token counts, sentence and word lengths, syllable counts, and complex word frequency.
- Conducted sentiment analysis by calculating positive/negative scores, polarity, and subjectivity using custom lexicons.
- Automated the export of processed metrics and sentiment/readability analyses into Excel reports for further insights.

Certifications:

- AWS Academy Graduate- AWS Academy Introduction to Cloud Semester

Education:

B.Tech in Artificial Intelligence and Data Science

CSMSS – Chhatrapati Shahu College of Engineering, Chhatrapati Sambhajnagar

2021 – 2024