Aniket Singh

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Education

- **Symbiosis Institute of Technology** — Pune, India
  Bachelor of Technology - Artificial Intelligence and Machine learning; GPA: 8.3 — *July 2021 - June 2025*

Skills Summary

- **Languages**: Python,C++,SQL
- **Frameworks**: TensorFlow,PyTorch
- **Databases**: MySQL, MongoDB
- **Python Libraries**: Numpy, Pandas, Scikit-learn, Matplotlib, OpenCV, Plotly, NLTK
- **Data Visualization**: Power Bi, Excel
- **Miscellaneous**: HTML/CSS, Flask,Streamlit,Latex

Projects

- **Indian Satellite Imagery-based Road Network Generation**
  Generative AI , Pix2Pix — *Feb 2024 - May 2024*
  - Develop a robust GAN model capable of learning the relationship between satellite imagery and road layouts improving mapping speed by 30 - 50%.
  - Currently publishing the dataset in a reputed open-access Q2 journal with a college professor

- **AI interviewer for Theoretical DSA preparation**
  NLP, LLM, BERT, Falcon 7b — *Aug 2023 - Dec - 2023*
  - Engineered LLM-based pipeline to assist students in interview-style theoretical question-answer scenarios.
  - Employed NLP concepts, BERT, and Falcon 7b LLMs through Hugging Face APIs to develop a 3-step pipeline.
  - Enhanced preparation effectiveness by 15-30%, facilitating improved understanding and retention of theoretical DSA concepts

- **Food Nutrition and Deficiency Disease Dashboard**
  Power Bi, Excel — *Dec 2023 - March 2024*
  - Developed a Power BI Dashboard for nutritionists and fitness enthusiasts, offering nutritional analysis for seven diseases, including Diabetes and High Blood Pressure.
  - The intuitive visual representations have the potential to increase outcomes by 30-40%. Proposed integration into food delivery apps like Swiggy and Zomato.

- **Shopper Intention Prediction and Analysis Project**
  Machine Learning, Python, Matplotlib, Pandas, Seaborn — *Aug 2022 - Dec 2022*
  - Integrated advanced machine learning algorithms to forecast shopper behaviors based on page engagement metrics, resulting in a probable 25% increase in targeted marketing effectiveness and a 15% in conversion rates.
  - Utilized Support Vector Machine (SVM), k-Nearest Neighbors (KNN), Logistic Regression, and Ensemble Learning for classification
  - Achieved 94% accuracy with Logistic Regression in Python, handling implementation, data manipulation, and creating visualizations using Matplotlib and Plotly.

Experience

- **Problem statement suggested by CopperCloud IOTech Pvt Ltd** — Remote
  Deep Learning, Computer Vision, CNN — *Sept 2023 - May 2024*
  - Developed ACENET CNN architecture, achieving 83% training and 82% test accuracy. Collaborated with CopperCloud IOTech to improve assembly line efficiency.
  - Presented research paper at ICASSCT 2024 on AI-driven quality assurance in manufacturing.

Publications

- **Research Presenter — IEEE International Carnahan Conference** — DIAT, Pune
  Conference Paper Link — *Oct 2023*
  - Demonstrated research excellence by showcasing a comparative analysis of Machine Learning (ML) and Deep Learning (DL) algorithms for disease classification, highlighting a 30% increase in accuracy with DL over ML.

Achievements

Code Crafters Event Winner — SymbiTech SIT, Pune
May, 2023

- Processed Sustainable Development Goals Dataset: Demonstrated exceptional data processing and analytics skills .
- Designed and implemented an interactive Power BI Dashboard that increased data interpretation efficiency by 25-30%,facilitating informed decision-making processes.
- Recognized for winning with a prize of Rs 5,000.

Volunteering

IT Project Team Member — Jhanvi Foundation NGO Pune
July 2023 – Nov 2023
Jhanvi Foundation Website

- **Contributed to Website Creation**: Played a key role in developing the NGO's impactful website.
- **Streamlined Image Upload**: Optimized image upload functionality for seamless showcasing of social work.
- **Integrated Google Forms**: Facilitated community connection via Google Forms integration.
- **Conducted AI Training Sessions**: Improved productivity through the implementation of AI tools.