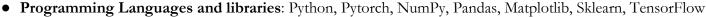
Ankit Chavhan

Data Scientist

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SKILLS



- Data Science: Prompt engineering, Large Language models, ChatGPT, RAG models, Natural language processing (NLP), Machine learning, Statistical analysis, Deep Learning, Exploratory data analysis, SQL, Hypothesis testing.
- ML/AI Deployment: Streamlit, Flask, Fast API, Docker, mlFlow
- Azure technologies: Azure Service bus, Azure file share, Azure container registry (ACR), Azure blob storage

EXPERIENCE

Carl ZeissFeb 2020 – PresentResearch EngineerBengaluru, India

Project: Surgery optimizer application

- Led and managed a cross-functional team consisting of three members, effectively coordinating and collaborating with project owners and the backend team.
- Successfully orchestrated the end-to-end development and deployment of two **AI models** for phase **segmentation and classification**. These models were encapsulated in **Docker** images, leveraging **ONNX** models, and equipped with **APIs** for seamless inferences. This strategic implementation resulted in optimizing operational efficiency by reducing processing time by 40%.
- Developed and implemented an automated pipeline on Azure file share, streamlining phase segmentation
 annotations and dataset formulation processes, while enhancing model experiment monitoring and
 deployment through mlFlow.
- This solution has undergone rigorous validation across multiple sites in India and the USA, proving its effectiveness. It has successfully empowered over 150+ clinicians, enabling them to significantly enhance their clinical efficiency.

Project: AI-DKD

- Procured a **patent** for a pioneering approach that utilizes **Machine Learni**ng and **Deep Learning** to identify Diabetic Kidney Disease (DKD) with the help of ophthalmic data and other invasive parameters.
- Received the **Zeiss patent award 2023** and made significant contributions by publishing 1-1 research papers in the **ARVO Journal and IJO**.
- Conducted comprehensive statistical and exploratory data analysis on structured data, collaborating closely with clinicians to identify key features. Utilized this analysis to develop a robust Random Forest model, achieving an impressive F1 score of 89%.
- Secured a finalist position in the New Business Challenge (NBC-2023) and demonstrated a pitch and Streamlit application to the **ZIESS CEO**, advocating for the solution's market launch as a product.

Medtronic
IT Developer
Bengaluru, India

- Utilized Python to develop a highly efficient **data pipeline** capable of seamlessly handling and processing a substantial volume of **ServiceNow data**, totaling **300 GB**.
- Managed and transformed data, applying advanced **statistical analysis**, **exploratory data analysis**, and **hypothesis testing techniques** to extract meaningful insights and draw conclusive findings.

EDUCATION

Masters Degree: Master of Science: Artificial Intelligence and Machine Learning

PG Diploma: CDAC, Acts Pune

Bachelor's degree: Computer science engineering from ITM, Gwalior (M.P)

Mar 2023 – Sep2024

Feb - July 2016

2011-2015