Ankit Chavhan

Data Scientist

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SKILLS

- **Programming Languages and libraries**: Python, Pytorch, NumPy, Pandas, Matplotlib, Sklearn, TensorFlow
- **Data Science:** Machine learning, Natural language processing (NLP), Large Language models (LLM), Statistical analysis, Deep Learning, Exploratory data analysis, SQL, Hypothesis testing, mlFlow.
- **ML/AI Deployment:** Streamlit, Flask, Fast API, Docker
- **Azure technologies:** Azure Service bus, Azure file share, Azure container registry (ACR), Azure blob storage

EXPERIENCE

Carl Zeiss **Feb 2020 – Present**
Research Engineer Bengaluru, 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 Learning** 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 **Aug 2016 – Jan 2020**
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

Scaler course: Data science and machine learning Jan 2022 - Present
PG Diploma: CDAC, Acts Pune Feb - July 2016
Bachelor's degree: Computer science engineering from ITM, Gwalior (M.P) 2011-2015