Ankit Chavhan

Data Scientist

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SKILLS

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

EXPERIENCE

Carl Zeiss **Feb 2020 – Present**
Research Engineer Bengaluru, India
Project: Surgery optimizer application

- Supervised a cross-functional team of three individuals, coordinating closely with project owners and the backend team.
- Orchestrated the development and deployment of two AI models for phase segmentation and classification, each encapsulated in Docker images housing ONNX models, and equipped with APIs for seamless inferences, 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.
- The application was effectively showcased at ASCRS and ESCRS events, which led to the validation study incorporating 10 new sites. Consequently, the application was launched in the US region.

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 prestigious Zeiss patent award 2023 and made significant contributions by publishing 1-1 research papers in the ARVO Journal and IJO.
- Executed statistical and exploratory data analysis on structured data, pinpointing crucial features after conferring with clinicians. Constructed a Random Forest model that yielded an 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**
Software engineer Bengaluru, India

- Employed Python to construct a data pipeline capable of handling 300 GB of ServiceNow data.
- Managed and transformed the data to extract insightful conclusions through statistical analysis, exploratory data analysis, and hypothesis testing techniques.

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