

ANKIT CHAVHAN

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Targeting opportunities as a Data Scientist specializing in Machine Learning, with a strong interest in expanding into global markets and contributing to diverse, international projects.

Education

- Pursuing: **Master of Science**, Artificial Intelligence and Machine Learning
- 2016: **PG Diploma**, CDAC, Acts, Pune
- 2015: **Bachelor's degree**, Computer Science Engineering, ITM Gwalior (M.P)

Core Competencies

Data Science Expertise

Machine Learning & Deep Learning

Statistical Analysis

Data Analysis

Employee Assistance

Team Leading

Prompt Engineering

Research & Innovation

Research & Development

Industry Experience

Data Management

Technical Skills

Programming Languages &

Libraries: Python, Pytorch, NumPy, Pandas, Matplotlib, Sklearn, TensorFlow, Keras

Data Science: Large Language models, ChatGPT, RAG models, Natural language processing (NLP), Computer Vision, 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

Profile Summary

- Results-driven professional with expertise in Data Science and Machine Learning, focusing on innovative solutions.
- Developed a comprehensive skill set encompassing statistical analysis, deep learning, and natural language processing, while also mastering deployment technologies and cloud services.
- Proficient in Interpreting and analyzing data using exploratory mathematic and statistical techniques based on the scientific method.
- Experiments against data points, provide information based on experiment results and provide previously undiscovered solutions to command data challenges.
- Cultivated strong leadership skills by promoting collaboration among diverse teams, driving project success and fostering innovation in data-driven solutions.
- Demonstrate comprehensive expertise in machine learning frameworks and deployment strategies, facilitating the smooth integration of AI solutions into current systems.

Work Experience

Carl Zeiss, Bengaluru | Research Engineer

Feb 2020 – Present

Key Result Areas:

Project: Surgery Optimizer Application:

- Led a cross-functional team to develop and deploy AI models for phase segmentation and classification.
- Implemented Docker containers and ONNX models, optimizing operational efficiency by reducing processing time by 40%.
- Created an automated pipeline on Azure and used mlFlow for model monitoring and deployment, enhancing clinical efficiency for 150+ clinicians.

AI-DKD Project:

- Secured a patent for a novel ML and DL approach to detect Diabetic Kidney Disease using ophthalmic and invasive data.
- Awarded the Zeiss patent award 2023 and published research in ARVO Journal and IJO.
- Developed a Random Forest model with an F1 score of 89% and was a finalist in the New Business Challenge 2023, pitching a market-ready solution.

Medtronic, Bengaluru | IT Developer

Aug 2016 – Jan 2020

Key Result Areas:

- Developed an efficient Python-based data pipeline to process 300 GB of ServiceNow data seamlessly.
- Executed data management and transformation, employing advanced statistical analysis, exploratory data analysis, and hypothesis testing to derive actionable insights and conclusions.

Project Undertaken

GenAI Project (Open Source):

- Engineered chatbots utilizing vector embedding techniques for accurate, context-aware responses.
- Achieved a 40% reduction in human intervention for customer service inquiries, improving response accuracy and user satisfaction.

Personal Details

Date of Birth: 21st January 1992

Location: Bangalore, India

Languages Known: English, Hindi