

Aishwarya Dekhane

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Resume Summary - Highly skilled data analytics and machine learning professional with over 6+ years of experience in developing and optimizing deep learning models, computer vision applications. Proficient in Python, Tableau, and various AI frameworks- Keras, Tensorflow, driving significant improvements in project efficiency and performance.

Education

University of Michigan Dearborn, MI, USA

Masters in Artificial Intelligence, Specialization: Data Analytics, GPA: (4/4) Aug 2023 - Apr 2025

Courses: Advance Algorithms, NLP, Deep Learning, Statistics, Time Series Analysis Pattern Recognition, Machine Learning

Savitribai Phule Pune University Pune, India

Bachelor of Engineering in Computer, GPA: (3.8/4) Jul 2015 - Aug 2019

Courses: Data Structures, Data Science, Machine Learning, Software Engineering, Database Management, Operating Systems

Work Experience

Fetch.ai - San Francisco, CA - AI Engineer Jan 2025 - Present

- Collaborated with senior team members to assist in developing, testing, and optimizing machine learning models, contributing to the design and implementation of robust software systems- AI Agents for AI applications, including data preprocessing and model deployment.

- Conducted literature reviews and research to support ongoing projects, participated in code reviews and debugging, and actively contributed to the integration and testing of AI technologies in existing products and services, ensuring scalability and maintainability.

University of Michigan - Dearborn, MI - Research Assistant Jan 2024 - Present

- Implemented and optimized deep learning architectures for text-to-speech (TTS) models, data analysis, and content generation by using ElevenLabs, and used diffusion, CNN, ML models and Python scripting to streamline speech synthesis.

- Researched and developed novel anti-spoofing techniques to combat deceptive content, data cleaning, and voice data against emerging deepfake threats. Prosody features extraction and Python scripting, using algorithms for ensuring robust anti-spoofing measures for performance tracking.

Cogent IBS - Detroit, MI - AI/ML Intern Dec 2023 - Mar 2024

- Developed an AI chatbot - LLMs using GCP APIs, achieving a 20% reduction in customer support response time.

- Build out data reporting infrastructure, from the ground up using Tableau, PowerBI, providing real time insights, resulting in a 30% improvement in performance for the client project.

- Using python, SQL implemented machine learning algorithms to enhance the chatbot's natural language understanding, leading to an increase in user satisfaction ratings.

Infosys Ltd - Pune, IN - Technology Analyst Dec 2019 – Aug 2023

- Developed over 10 innovative proofs-of-concept and prototypes in visual data analytics, data processing, and a nested database and python, GCP capabilities by a significant margin.

- Automated critical processes for a US bank, complex financial calculations for mortgage applications, ML problems, resulting in significant time saving the bank 15 hours weekly and improving accuracy by 25%.

- Managed and optimized software development projects using tools like Git, Jira and Confluence at Infosys, resulting in a substantial 40% increase in project delivery efficiency and enhanced team collaboration with the marketing team.

- Experienced with Exploratory Data Analysis(EDA), developed and optimized python scripts to automate financial data extraction, integrating APIs for monthly insurance calculation, and generated accurate financial reports.

Oasis Software Solutions - Pune, IN - Data Engineer Intern Jun 2019 – Nov 2019

- Analyzed and processed over 1,000 data sets to improve machine learning, model accuracy by 15%.

- Collaborated with a team of 10 engineers to integrate AI into existing products, increasing user engagement.

Skills

- Programming Language- Python, C, C++, Java, JavaScript, TypeScript, PHP

- Data Science Skills- Data Preprocessing, Data Visualization, Data Analysis, Feature extraction, Classification

- AI and Machine Learning- Deep Learning, Computer Vision, NLP, Keras, PyTorch, OpenCV, Yolo, Sklearn, Pandas, Azure AI, MATLAB, Tensorflow, MLFlow, AirFlow, scikit-learn LLM, Text Analysis, OCR, GCP, Dialogflow

- Cloud Technologies- Google Cloud Services, Microsoft Azure, Amazon Web Services

- Tools- Visual Studio, PyCharm, Jupyter Notebook, GitHub, Jira, Confluence, Tableau, PowerBI, MS Office

Projects