Avi Chauhan

Software Engineer/Data Analyst/Web Developer

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Education

Master of Science, Computer and Information Sciences   Aug 2024 – May 2026 (Expected)
University at Albany, Albany, NY, USA

Bachelor of Engineering, Computer Science & Engineering   September 2020 – May 2024
Indus University, Ahmedabad, Gujarat, India

Professional Experience

Company Name: Silent Infotech Pvt Ltd   Duration:- Jan 2024 to April 2024
Title:- AI/ML Intern

- Worked with Transformer architectures and Large Language Models (LLMs) for fine-tuning and optimizing AI applications, including Retrieval-Augmented Generation (RAG) for handling unstructured data.
- Gained experience in model optimization and deployment using ONNX and TensorFlow Lite, implementing quantization techniques for efficient inference. Developed end-to-end machine learning pipelines, integrating data preprocessing, model training, evaluation, and deployment while ensuring scalability and performance optimization.

Company Name: Opus Technologies   Duration:- June 2023 to July 2023
Title:- Machine Learning Intern

- Worked as Remote Internship Trainee on Machine Learning projects. Utilized and used Pandas, Matplotlib, Scikit-Learn, NumPy, TensorFlow and Keras libraries on assigned modules of different projects.
- Developed, customized and fine-tuned CNN models in classification of plant leaf diseases and lung cancer detection. Performed data preprocessing, model training and evaluation of models to achieve high accuracy.

Academic Projects

Project Name: SaaS Learning Management System (LMS)

- Built a full-stack SaaS app with Next.js, Supabase, and Stripe, featuring authentication, subscriptions, and AI-powered tutors for interactive learning.
- Designed a modern responsive UI with Tailwind CSS and shadcn/ui, ensuring real-time data handling, scalability, and seamless cross-device compatibility.

Project Name: Online Exam Monitoring System

- Led as a Scrum Leader of 8 members team in Software Engineering to develop an innovative Online Monitoring Exam System using agile methodology, leveraging Computer Vision, React.js, and Express.js to enhance exam integrity.
- Implemented multi-threaded processing to enable real-time video analysis and academic misconduct detection in parallel with user interaction logging, ensuring smooth and efficient monitoring for both students and instructors.

Project Name: Finance Tracking Platform

- FinVista is a full-stack personal finance platform that leverages AI to help you track income, expenses and budgets effortlessly. Built with Next.js 15 and Prisma, it lets users create multiple accounts, monitor spending patterns, and automate expense categorization via receipt scanning. datasets.

Skills

- Programming Languages: Python, Java, C, C++, Bash, R, C#
- Machine Learning: Regression, Classification, Clustering, Decision Tree, Data Preprocessing, Data pipelines, CI/CD pipelines, Model Training and Evaluation, MLOps and MLflow
- Deep Learning & Generative AI: PyTorch, TensorFlow, Keras, CNN Model Development, LLM.
- Natural Language Processing (NLP): Text Preprocessing, Named Entity Recognition (NER), Sentiment Analysis, Transformers, Hugging Face
- Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Scikit-Learn, Power BI, Excel
- Computer Vision: Customizing and Fine-Tuning Models for Image Classification
- Web Services & Frameworks: Human-Computer Interaction, JavaScript, TypeScript, HTML/HTML5, CSS/CSS3, Ajax, React.js, React Native, Express.js, Node.js, Visual Studio Code, Redux, Next.js
- Tools: Git, GitHub, Microsoft Office Suite, Docker, Open-source tools, Matlab
- AWS Services :- Amazon SageMaker, AWS Lambda, Amazon EC2, Amazon S3, Amazon DynamoDB, Amazon CloudWatch, Simple Email Service, EventBridge, Amazon CloudFront, Amazon EBS Amazon EFS
- Data Structures, Algorithms, Operating Systems, Systems Programming
- Database System and Database Management: MySQL, SQL Server, PostgreSQL.

Certification

- **AWS Certified Solutions Architect (Associate)** – Validation No: 222d1eb066f24407bb04abedb0c10fee
- **AWS Certified AI Practitioner** – Validation No: 5289992c1c274ebeafa5aaddeb0c5d35