

Sadhan Vikram

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PROFESSIONAL SUMMARY

Results-oriented Machine Learning Engineer with expertise in developing predictive analytics models, NLP, and computer vision applications. Proven ability to build end-to-end ML solutions using deep learning architectures (LSTMs, CNNs, RNNs) for complex tasks including image segmentation, time-series forecasting, and natural language processing. Strong foundation in cloud-based AI solutions and big data technologies.

TECHNICAL SKILLS

Machine Learning: Deep Learning, Natural Language Processing, Computer Vision, Predictive Modeling, Time-Series Forecasting, Supervised & Unsupervised Learning

Frameworks & Libraries: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Keras

Programming Languages: Python, R

Cloud & Big Data: Microsoft Azure AI, Generative AI, Big Data Analytics

Tools & Platforms: Tableau, Git, Data Visualization, Model Deployment Pipelines

Specializations: LSTMs, CNNs, RNNs, Image Segmentation, Image Captioning, Feature Engineering, Model Optimization

PROFESSIONAL EXPERIENCE

Machine Learning Engineer Intern

ALGONIVE | June 2025 – September 2025 | 4 months

- Built, trained, and evaluated machine learning models using Python, TensorFlow, and Scikit-learn for real-world predictive analytics applications
- Implemented data preprocessing pipelines and advanced feature engineering techniques to improve model performance and accuracy
- Collaborated with cross-functional teams to develop and optimize supervised and unsupervised learning algorithms for complex datasets
- Conducted model validation, hyperparameter tuning, and performance optimization to achieve production-ready ML solutions
- Gained hands-on experience in end-to-end ML deployment pipelines and model lifecycle management

Data Science Intern

Zidio Development | April 2025 – July 2025 | 4 months

- Applied statistical analysis and machine learning techniques to extract actionable insights from large-scale real-world datasets
- Developed and optimized predictive models using Python (Pandas, NumPy) with focus on model accuracy and interpretability
- Created data visualizations using Matplotlib and Seaborn to communicate key trends and insights to stakeholders

- Engineered and optimized data pipelines for efficient data processing and model training workflows
- Collaborated with team members to implement best practices in data cleaning, transformation, and model evaluation

Data Entry Specialist

Lax Administration, India | December 2023 – June 2025 | 1 year 7 months

- Managed and processed large volumes of data with high accuracy and attention to detail
- Maintained data integrity and quality standards across multiple database systems

EDUCATION

BSc Computer Science

The American College | Computer Systems Networking and Telecommunications | June 2023 – June 2026

Applied AI & ML Essentials

Indian Institute of Technology, Patna | February 2026 – July 2026

Full Stack Developer Program

NxtWave | February 2024 – February 2027

CERTIFICATIONS

- Microsoft Certified Systems Certifications
- Certified Data Scientist
- GenAI in Big Data (CSC Computer Education)
- Machine Learning Certification
- CSC Computer Education (ADPP)

KEY PROJECTS & EXPERTISE

LabLink

SaaS Platform

A comprehensive SaaS platform designed for seamless laboratory management, real-time connectivity, and advanced reporting.

SaaS | Web

lablink.live

AI-Powered Interview Platform

AI Web Application

An intelligent mock interview platform powered by AI. Generates dynamic questions and evaluates answers.

Python | AI | Web Framework

[GitHub Source](#)

HairStyle AI

Generative AI Application

An AI application leveraging generative models to visualize and recommend hairstyles.

Python | Generative AI | Deep Learning

[GitHub Source](#)

Sign Language Platform

EdTech & Computer Vision

A platform utilizing computer vision to facilitate interactive sign language learning and recognition.

Computer Vision | Python | Web

[GitHub Source](#)

Synthetic Customer Profiles

E-Commerce & Recommendations

Generated synthetic customer profiles to develop and test robust product recommendation algorithms.

Machine Learning | Data Synthesis | Python

[GitHub Source](#)

Market Basket Clustering

Data Mining & Analytics

Unsupervised learning application for clustering market basket data to identify purchasing patterns.

Clustering | Unsupervised Learning | Python

[GitHub Source](#)

Digit Image Clustering

Image Processing & K-Means

Clustered MNIST digit images using the K-Means algorithm to explore unsupervised image categorization.

K-Means | MNIST | Python

[GitHub Source](#)

Tech Giants Stock Analysis

Financial Market Analytics

Analyzed the stock price movements of major tech giants to identify trends and correlations.

Data Analysis | Pandas | Finance

[GitHub Source](#)

Time-Series Stock Forecasting

Predictive Analytics

Time-series analysis and forecasting models to predict stock market trends and future prices.

Time-Series | Forecasting | Python

[GitHub Source](#)

Image Captioning

Multimodal Deep Learning

Deep learning model integrating computer vision and NLP to automatically generate descriptive captions for images.

CNN | RNN/LSTM | NLP

[GitHub Source](#)

Image Segmentation

Advanced Computer Vision

Implemented image segmentation techniques to partition images into meaningful segments for detailed analysis.

Computer Vision | Segmentation | Deep Learning