Aditya Singh

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Education

Vivekanand Kendra Vidyalaya, 12th, Computer Science — May 2020 – April 2021

• Percentage: 80.4

Parul University, B.Tech in Computer Science(AI) — September 2021 – May 2025

• CGPA: 7.55

• **Coursework:** Machine Learning, Data Structures and Algorithms, Artificial Intelligence, Deep Learning, NLP

Certification

Generative AI (Oracle)

Data Analytics (IIT Bombay)

• **Software Engineering** (Swayam-NPTEL)

• **Classify Images with TensorFlow on Google Cloud** (Google cloud Platform)

Internship

AI Intern | Siimteq Technologies — January 2025 – Present

• Working on developing an AI-powered chatbot for seamless customer interactions and automated query resolution.

• Designing an image generation model specifically for jewelry, utilizing GANs and deep learning techniques techniques to generate high-quality visuals.

• Enhancing chatbot efficiency through fine-tuned NLP models, improving intent detection and response accuracy

Projects

Emotion Detection — January 2023 – July 2023

• Designed a real-time emotion detection tool, analyzing **100,000+** text samples with **85% accuracy** using advanced NLP techniques.

• Integrated the tool with web applications to classify emotions such as joy, sadness, anger, and surprise in less than 1 second after text submission, enhancing user feedback mechanism.

Heart Failure Analysis — July 2023 – September 2023

• Led a machine learning-driven project to predict heart failure outcomes, analyzing **10,000+** patient records,achieving **90%** accuracy in identifying high-risk patients.

• Developed personalized healthcare strategies, contributing to **a 20%** improvement in early detection and intervention, potentially reducing hospital readmission rates.

Predictive Maintenance System — May 2024 – July 2024

• Built a predictive maintenance system for **1,000+** industrial machines, achieving **92%** failure prediction accuracy using ML models and operational data (e.g., air temperature, torque, RPM).

• Reduced machine downtime by **30%**, leading to increased operational efficiency and saving companies an estimated **$500,000 annually** in maintenance costs.

AI-Powered Customer Support Chatbot — August 2024– November 2024

• Deployed a chatbot using Python and Dialog flow, handling **500+** daily queries with **90%** intentdetection accuracy, reducing customer service response time by **30%**.

• Trained the chatbot on **50+** intents and **1000+** training phrases, enabling seamless, context-aware interactions for users.

Technologies

Languages: Python, SQL, R

Technologies: TensorFlow, PyTorch, Keras, Scikit-learn, Power BI, Tableau, Excel, Git

Machine Learning & Data Science Techniques: Exploratory Data Analysis (EDA), Predictive Modeling, Natural Language Processing (NLP), Time Series Analysis, Deep Learning (CNN, RNN, GANs), Feature Engineering, ModelEvaluation (Cross-Validation, AUC, ROC), Dimensionality Reduction (PCA, LDA)