

Manish Jaysingh

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Education

National Institute of technology ,patna

CGPA :8.61

Bachelor of Technology

2025

DAV Public School

Percentage: 94.2

Board of Intermediate Education, Odisha

2021

DAV Public School

Percentage: 97

Board of Secondary Education, Odisha

2019

EXPERIENCE

Undergraduate data scientist

June 2024 – August 2024

VeriSync Labs

Sambalpur ,Odisha

- Developed linear and logistic regression models from scratch using Python, applying techniques like gradient descent and maximum likelihood estimation.
- created a reusable PyPI package for model implementation, including comprehensive documentation for ease of use by other developers.
- collaborated with a team to ensure data integrity and model performance ,contriuting to robust application

PROJECTS

Agentic Restuarant Bot | *Chroma DB,LangGraph,sqlite.*

April 2025 – Present

- Developed a Agentic Restuarant Bot using LangGraph for streamlined and automatic food ordering in an restuarant.
- Used LangGraph to determine the workflow and used google geminis' gemini-2.0-flash model as central decision making llm .
- Used vector embedding by google geminis' text-embedding-004 model and chroma DB for vector database.
- made use of sqlite to add confirmed order.

Chicken Health Classification | *TensorFlow, Flask, AWS*

August 2024– September 2024

- Developed a Deep learning model to accurately classify chickens as healthy or unhealthy based on visual data ,utilized CNN(VGG16 architecture).
- Attained a 90 percent accuracy rate in classifying chicken health.
- Successfully deployed the model using a Flask application and a CI-CD pipeline on AWS.
- ReLU activation on hidden layers and softmax activation on the output layer, optimized with stochastic gradient descent (SGD) and a learning rate of 0.01 to accurately classify chickens as healthy or unhealthy .

Tweet Sentiment Extraction | *Pandas,NLTK,Sklearn,Re*

October 2024 – December 2024

- Designed and implemented an NLP sentiment analysis model using Python and TensorFlow; processed approximately 1 million tweets, enabling the marketing team to tailor campaigns based on real-time public perception.
- Utilised naive bayes algorithm.
- Tokenized the data using bag of words(countvectorizer),after lemmatizing and using stopwords to remove unnecessary words.
- Achieved a 63 percent accuracy rate in classifying tweets.

TECHNICAL SKILLS

Languages: Java, Python, SQL (mySql)

AI/ML Frameworks: TensorFlow, Scikit-learn, LangChain, LangGraph

Tools: Git, Docker, VS Code, Chroma DB, Vertex AI

Libraries: Pandas, NumPy, Matplotlib, Seaborn, NLTK, Hugging Face, Re

Concepts: Agents, RAG, Embeddings, Vector Databases, NLP

COURSEWORK

- Decode Data Science with machine learning ,pw skills
- 5-Day Generative AI course by Kaggle and google