

Abhishek

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Professional Summary

Computer Science undergraduate with a strong foundation in **Machine Learning, Deep Learning, and NLP**. Demonstrated ability to develop and deploy end-to-end AI applications, including web-based tools and utilizing technologies like **Python, TensorFlow, Flask, and Streamlit**. Proven track record of achieving high accuracy in predictive modelling and classification tasks, with a keen interest in applying data-driven solutions to real-world challenges.

Education

UNITED COLLEGE OF ENGINEERING AND RESEARCH,

2021-2025

- Course: B.Tech in Computer Science
- **Coursework:** Object Oriented Programming, Database Management System, Machine Learning, Statistics, Data Structures and Algorithm.
- CGPA: 7.4/10

Projects

PUBMED LITERATURE SKIMMER – NLP, Deep Learning, Flask, Chrome Extension [LINK](#)

- Developed an NLP model to classify sentences from medical research abstracts into categories: **Background, Objective, Methods, Results, and Conclusion**.
- Utilized the **PubMed RCT 200k** dataset with 200,000+ labeled abstracts
- Applied token, character, and positional embeddings, and built a hybrid model using BiLSTM layers.
- **Achieved ~89% accuracy** in sentence classification.
- Deployed as a **Flask-based web application** and integrated with a **Chrome Extension**.
- This **project improves accessibility** for researchers by **summarizing large abstracts** in 5 classes.

WINE QUALITY PREDICTION - Machine Learning, Eda, Smote, Scikit-Learn [LINK](#)

- Built a machine learning model to classify wine quality using **physicochemical features**.
- Performed **EDA**, feature selection, and handled data imbalance using **SMOTE**
- Evaluated **Logistic Regression, Naive Bayes, Decision Tree, and Random Forest**
- **Achieved 85% accuracy** with **Random Forest Model**.
- Demonstrated practical applications of ML in food quality control.

FOOD VISION PROJECT - Deep Learning, Tensorflow, Keras, Food101 Dataset [LINK](#)

- Developed a **deep learning model** using TensorFlow and **Food101 dataset** with over **100,000+ images**.
- Implemented **mixed-precision** training to **accelerate model performance** on GPU, **improving processing time by 30%**
- Built and fine-tuned, high-accuracy model, that **outperformed** the baseline **DeepFood model**.
- **Achieved 90% validation accuracy** on Food101 dataset in **only 3 training epochs**.
- **Deployed using Streamlit** for an interactive **end-to-end web application**.

Technologies

- **Language:** C, Python, SQL
- **Frameworks:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Flask, Keras, Streamlit
- **Tools:** MS Excel, Power BI, MySQL, Postgres SQL
- **ML Algorithms:** Linear, Logistic, KNN, Decision Tree, Random Forest, K-Means Clustering, PCA, Naive Bayes, Handling Imbalanced dataset, NLP, Statistical Analysis.
- **Deep Learning:** Neural Networks, CNN, NLP, RNN, LSTM, Transfer Learning.
- **Full Stack Development :** HTML, CSS, JavaScript, React.js, Next.js, Node.js, MongoDB, Mongoose.

Certificates

- **Data Science** – Ainwik Infotech (2025) [Certificate](#)
- **Machine Learning** – Softpro (2025) [Certificate](#)
- **Introduction to Statistics** – Stanford (2025) [Certificate](#)

- **Master MySQL for Data Science** – UDEMY (2025) [Certificate](#)
- **Supervised Machine Learning** – Regression and Classification – Stanford Deep learning (2025) [Certificate](#)
- **NumPy for Data Science** – Real Time Exercises – UDEMY (2025) [Certificate](#)