

KUMAR MAYANK

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EDUCATION

Bachelor of Computer Science Specialization in AI ML

Graphic Era(Deemed to be University)

Secured GPA:9.3

Dehradun

Expected 2025

Aklank Day Boarding Cum Residential School(CBSE Affiliated)

Twelfth Grade-Maths,Overall Marks Percentage:78

Rajasthan

2021

St.Karen's Secondary School(CBSE Affiliated)

Tenth Grade-Maths,Overall Marks Percentage:90.2

Bihar

2019

FIELDS OF INTEREST

Web Development, Problem Solving , Artificial Intelligence and Machine Learning

SKILLS SUMMARY

- **Languages:** C/C++,Java,Python,CSS,HTML,JavaScript,SQL, M.E.R.N Development
- **Tools:** GIT, MS Office
- **Skills:** STL,Alogrithms, APIs ,Python Libraries(Tensorflow,Pytorch and KerasCV) , GenAI(LLMs)
- **Platforms:** Ubuntu , Windows , MacOS , Linux
- **Cloud Platforms:**
 - i. AWS: EC2 , S3 , Lambda and RDS
 - ii. GCP: Compute Engine, Cloud Storage , Cloud Functions and BigQuery
- **Soft Skills:** Leadership, Team Management, Reading
- **Data Analyst:** Tableau , Power BI

PROJECTS

Price Optimization Model:

- Objective: Determine optimal product/service pricing for maximum profitability.
- Factors Analyzed: Market conditions, customer behavior, competitor pricing, internal costs.
- Algorithms: ARIMA, Decision Tree, Extra Trees, Gradient Boosting, HistGBM, LightGBM, Linear Regression, Naive Model, Random Forest, XGBoost, k-NN.
- Tools Used: Matplotlib, Seaborn, Pandas, Scikit-learn, Streamlit.
- Impact: Balanced pricing strategy to maximize profit while remaining competitive.

[Price Optimization Model](#)

Floating Debris Detection System:

- Project: Automated floating debris classification in aquatic environments.
- Models Used: CNN, LSTM, CNN-LSTM.
- Dataset: Diverse, real-world relevant.
- Metrics: Accuracy, Precision, Recall, F1-score.
- Impact: Enhanced environmental monitoring for ecosystem sustainability.

[Floating Debris Detection](#)

Breast-Cancer-Detection:

- Project: Breast cancer detection using machine learning.
- Data Sources: Mammograms, ultrasounds, MRI scans, patient records.
- Algorithms: LSTM, Bi-LSTM.
- Objective: Aid in the identification and diagnosis of breast cancer.

[Breast Cancer Detection](#)

Cancer Bio-Marker Prediction System:

- Project: Cancer Biomarker Prediction System.
- Objective: Predict and identify cancer biomarkers for early detection and improved treatment.
- Algorithms: Decision Tree, Logistic Regression, KNN, SVM, Naïve Bayes, AdaBoost, Random Forest, Extra Trees, Gradient Boosting, XGBoost, Hybrid Model.
- Libraries: Matplotlib, Seaborn, Pandas, Scikit-learn.
- Impact: Enhanced accuracy in biomarker prediction through comprehensive analysis of complex biological data.

[Cancer Bio-Marker Prediction System](#)

RESEARCH PUBLICATIONS

1. Prachi Pandey, Kumar Mayank and Dr.Sachin Sharma **Recommendation System for Adventure Toursim** presented at 4th Global Conference for Advancement in Technology,Bangalore, Karnataka, India.

[Publication Link](#)

2. Prachi Pandey, Kumar Mayank and Dr.Sachin Sharma **Cancer Bio-Marker Prediction System** presented at International Conference on Integration of Computational Intelligent System in Pune, Maharashtra, India.

[Publication Link](#)

3. Prachi Pandey; Kumar Mayank; Guru Prasad M S ; Mahima M Gowda; Prashanth Kumar S P; Karthik D U **An Efficient Detection of Floating Marine Debris using Deep Learning Techniques** presented at 2024 IEEE Bangalore Humanitarian Technology Conference (B-HTC) in Karkala, India.

[Publication Link](#)

WORK EXPERIENCE

INTERNSHIP :

1. [StarX91](#):(30 March 2023 - 30 June 2023)

Position:**Machine Learning Intern**

Period of Experience:3 months

2. [Listerr:The Indian Marketplace](#) :(9 July 2023 - Present)

Position:**Machine Learning Intern**

Period of Experience:1 Year +

CERTIFICATIONS

1. [TensorFlow Developer Certificate](#)

EXTRA-CURRICULAR ACTIVITIES

- Finalist at Build For Bharat Conducted by Google Cloud, ONGC etc (1st Runner in Scalable Solution)
- Finalist at Graph-thon Conducted by Graphic Era University
- Solved 350+ Questions on Leetcode
- Solved 100+ Questions on CodeChef
- International Space Olympiad-2019
- Indian Space Science Olympiad-2020
- NASA's LUNAR LOO CHALLENGE
- Research on SETI (Search For Extraterrestrial Intelligence)