Alok Kumar

AI/ML Engineer
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GitHub | **Linkedin**

Education

K.P School — W champaran Bihar
Math,science Higher Secondary Certificate — march 2018 - April 2020
Percentage: 70%

IGNOU — Delhi,India
Computer Science Bachelor's — April 2022 - April 2025

Experience

SystemTron | Machine Learning Instership — Delhi,India | Nov 2023 - Dec 2023

* Hands-on ML application: Implemented algorithms, assessed model efficacy, and refined data preprocessing techniques for practical insights.
* Collaborative team engagement: Contributed actively, collaborated with peers, and partook in problem-solving sessions.
* Skill advancement: Enhanced Python proficiency, deepened ML library understanding, and refined data analysis abilities.

iNeurone | Machine Learning Internship

* Applied ML algorithms: Implemented various models, assessed their performance, and fine-tuned parameters for optimal results.
* Collaborative teamwork: Contributed to team projects, engaging in problem-solving sessions and discussions.
* Enhanced skills: Strengthened Python proficiency, utilized TensorFlow, and improved data analysis and visualization techniques.

Skills

Libraries/Frameworks:	Scikit-learn XGBoost LightGBM CatBoost, TensorFlow Keras (high-level API, often used with TensorFlow) PyTorch, OpenCV, TensorFlow (with its image processing modules) PyTorch (with vision libraries), NLTK (Natural Language Toolkit), Transformers (Hugging Face)
Tools / Platforms:	Amazon SageMaker, Microsoft Azure Machine Learning, Google Colab NVIDIA Deep Learning GPU Training System, Google Cloud Natural Language API
Databases:	SQl, Mysql, Mongodb

Projects / Open-Source

IPL_Winning_Preddiction | Link — *Python,Machine learning,scikit-learn,Streamlit*

* Machine Learning application: Utilized scikit-learn to build predictive models based on historical IPL data, employing algorithms like Logistic regression or GridSearchCV for accurate predictions.
* Streamlit interface: Developed a user-friendly interface using Streamlit in Python, allowing users to input data and receive predicted outcomes or probabilities for IPL match winners.
* Python integration: Leveraged Python's extensive libraries for data preprocessing, model training, and visualization, ensuring a robust and comprehensive solution.
* Result validation: Validated model accuracy through accuracy score techniques, ensuring the reliability and effectiveness of the prediction system.

Breast_cancer_prediction | Link — *Python,Machine learning,scikit-learn,Streamlit*

* Data analysis: Conducted in-depth analysis of breast cancer datasets, exploring various factors and patterns using statistical methods and visualization tools like Matplotlib or Seaborn.
* Machine learning models: Implemented diverse ML algorithms (e.g., logistic regression, SVM, neural networks) to predict breast cancer occurrences, focusing on classification accuracy and model comparison.

* Streamlit interface: Developed a user-friendly interface using Streamlit in Python, allowing users to input data and receive predicted outcomes or probabilities for Breast Cancer Prediction.
* Performance evaluation: Rigorously evaluated model performance using metrics like precision, recall ensuring the reliability and effectiveness of the predictive system.

Certifications

- Machine Learning Internship - **SystemTron**
- Python Programming - **Microsoft**