Akshay Singh

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| github.com/AkshaySingh| leetcode.com/Akshay_S-1ngh(500+ Questions)

EDUCATION

Manipal Institute of Technology   Manipal, Karnataka
Bachelor of Technology in Data Science (CGPA- 8.00)   *Oct. 2021 – Aug. 2025*

Julien Day School   Kalyani, West Bengal
Primary and Secondary Education (10th standard-92.6% , 12th standard-91.6%)   *April 2019 – April 2021*

EXPERIENCE

Project Intern   June 2023 – July 2023
IBM   *Remote*
- Built a Mental Fitness Tracker using **Data Analysis** and **Machine Learning** algorithms
- Conducted an in-depth analysis through data visualizations and performed a comprehensive comparative study, assessing the performance of various regression algorithms using key evaluation criteria such as Root Mean Squared Error (RMSE), Mean Squared Error (MSE), and R-squared (R2) Score.

Artificial Intelligence Team Member   Aug. 2022 – Present
Project DronAid   *Manipal, Karnataka*
- Applied machine learning concepts such as data pre-processing, feature extraction, model selection and evaluation to optimize the drone's navigation and decision-making capabilities.
- Developed and implemented computer vision algorithms using **OpenCV** and **Deep Learning** to enhance the performance and accuracy of AI-driven drones.

Industrial Trainee   June 2023 – July 2023
Intel   *Remote*
- Developed a robust fake news classifier model by leveraging a combination of data analysis, machine learning techniques, and deep learning methodologies. Employed various classification algorithms to carefully assess the model's performance, generating detailed classification reports for each algorithm to gauge its effectiveness in identifying fake news accurately.
- Implemented **Long Short-Term Memory (LSTM)** neural networks as a cutting-edge deep learning approach for the classification task, enhancing the model's ability to capture intricate patterns and temporal dependencies within textual data, ultimately boosting the classifier's overall accuracy and robustness against deceptive news content.

PROJECTS

Real Time Object Tracking Model | *Python, OpenCV*   August 2022 – September 2022
- Implemented real time object tracking using OpenCV which is implemented by using CSRT Tracker.

Mental Fitness Tracker | *Python, Machine Learning, Data Analysis*   June 2023 – July 2023
- Uses Data Analysis and Machine Learning Algorithms to predict the mental fitness of an individual.
- Performed comparative study, assessing the performance of various regression algorithms using key evaluation criteria such as Root Mean Squared Error (RMSE), Mean Squared Error (MSE), and R-squared (R2) Score.

Movie Recommender System | *Python, Data Analysis, Machine Learning, Streamlit*October 2022 – December 2022
- Developed a sophisticated movie recommender system by applying advanced data analysis concepts and state-of-the-art Machine Learning techniques, which enabled personalized movie recommendations based on user preferences.
- Streamlined the user experience by deploying the movie recommender system on the interactive Streamlit platform, making it accessible to a broader audience.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, MySQL(Database), HTML/CSS
Developer Tools: TensorFlow, Keras, VS Code, PyTorch, PyCharm
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn,OpenCV