Ajay Kumar

Aspiring Data Scientist & AI

Bangalore, Karnataka

+919304683219 kajaykumar546@gmail.com https://github.com/ajaykumar546
https://www.linkedin.com/in/ajay-kumar-176910201/

Motivated individual with strong grasp of supervised and unsupervised machine learning models. Proficient in optimization algorithms and data science applications and AI. Natural language processing, and autonomous decision-making. Skilled in analyzing complex datasets to generate actionable insights. Eager to collaborate with teams in analyzing large datasets for meaningful insights.

Education

Jain University
Master's degree in Computer science 2022-2024 CGPA : 9.04

- Specializing in Artificial Intelligence (AI).

Work history

Data Science Consultant, Intern | Rubixe (June 2022 – December 2022)

- Collaborated with the team members to understand client requirements and business challenges. Worked on a client project where machine learning algorithms like decision tree, xgboost, random forest algorithm were applied and achieved 95% test accuracy. Played a key role in the project team and ensured timely submission of the projects.

- Constructed predictive models using machine learning algorithms, including Logistic Regression and Multiple Linear Regression, achieving an accuracy rate of 85% in attributing revenue and conversions to specific marketing touchpoints

AI Consultant, Inter | Elewayte company (Feb 2023 – Apr 2023)

- Assisted in managing high-profile projects, contributing to a 15% increase in overall project efficiency. pipeline (data engineer)

Skills

- Python – Numpy, Pandas,Tensorflow, Pytorch ,Sklearn, Scikit Learn, Keras, ml, dl, Git, Api.
- Visualization- tableau, power bi, Seaborn, Matplotlib ,SQL, Flask, Machine learning algorithms, Time series forecasting, Data analysis ,Deep learning (dl), Real-time analytics.
- Linear Regression, Logistic Regression, Clustering Classification techniques.
- Natural language processing (NLP), Jupyter notebook, R, Database, communication
- Applied statistics, Statistical analysis ,Ms excel, Big Data, Spark, Hadoop, AWS.
- Deployment - SQL, Java,Html and CSS, C++, Flask, Django, full stack (Django or react).
- Computer Vision:- YOUO, OpenCV, Generative AI, RAG, embedded systems.
- Neural Network , Deep LearningCNNs, VGGNet, RegNet,Recurrent Neural Networks (RNN), sql developer, etl, apache, problem-solving skills, cloud-based computer vision.

Certifications

- Certified Data Scientist (Datamites)
- Certified Artificial intelligence (Elewaty Company)
- Certified Data Scientist (IABAC)

Projects

1. **Handwritten Digit Recognition using CNN** (02/09/2022 – 20/09/2022)

- Applied techniques such as resizing, normalization, and data augmentation to enhance model robustness. Employed techniques such as adjusting learning rates and dropout rates to enhance the model's ability to generalize.
- Collaborated with agronomy experts to integrate domain knowledge into the CNN model architecture, achieving a holistic approach to disease prediction with a 90% confidence interval and enabling accurate identification of disease types and stages.

Skills applied: convolutional neural network | image classification

2. **Ranking of fifa20 players** (25/09/2022 – 15/10/2022)

- Employed unsupervised machine learning algorithms to cluster football players based on skills. Developed a ranking system for fifa20 players to facilitate strategic decision-making.
- Achieved a 15% increase in accuracy of player rankings by implementing advanced statistical analysis techniques and incorporating measurable performance metrics such as goal-scoring records and assist statistics.

Skills applied : model optimization | clustering | unsupervised learning

3. **predict Skin Disorder** (20/10/2022 – 25/11/2022)
    - Create a predictive model using machine learning techniques to predict the various classes of skin disease. After Testing it with Different Algorithms like Decision Tree, Svm, and RandomForest gives the best Accuracy 98%.

Skills applied : Exploratory data analysis | Model create RandomForest | Classification |

4. **Employee Performance Analysis** (20/02/2023-10/03/2023)

    - Implemented an efficient classification model for Employee Performance detection, showcasing predictive analysis capabilities. Spearheaded efforts that led to a remarkable increase in the accuracy score from 78% to 94 %.
    - Implemented feature engineering techniques to enhance the predictive power of the model, Artificial neural network [multilayer percepton] perform very well on training data accuracy score 99.33%, but the test data score is 95.23%.

Skills applied: supervised learning algorithm | data pre-processing | classification | predictive modelling | model evaluation

5. **Movie Recommendation System using** (15/05/2024-10/06/2024)
    - Implemented an efficient Cosin Similarity Matrix for recommendation stystem and Building Content Based Recommendation Based on the reviewText of the Movie. Spearheaded efforts that led to a remarkable increase in the accuracy score from 78% to 94 %. And recomand ten movie by algorithm.

Skills applied: Cosin Similarity | data pre-processing (Lowercasing, Remove Punctuation, Remove Numbers,Remove Special CharactersRemove Whitespace)| | predictive modelling