Suraj Kumar

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Projects

Inventory Management System | *Python, Django, HTML, Bootstrap, TensorFlow*
- Designed, managed an inventory handling system: Utilized Python, Django, HTML, Bootstrap, and TensorFlow to create platform for inventory demand forecasting and management.
- Implemented Advanced Forecasting Models: Applied SARIMA and LSTM models for accurate demand prediction, optimizing inventory levels and balancing costs using the News vendor method.
- Integrated Secure Authentication: Implemented Simple JWT for secure token-based authentication within the Django REST Framework, ensuring seamless and secure user interaction.

Kidney Disease Classification | *Flask, Python , TensorFlow, Docker, Github action*
- Developed a comprehensive kidney disease classification project utilizing the VGG16 model and transfer learning techniques. Employed MLFLOW for model monitoring and established a seamless pipeline spanning data ingestion to model evaluation.
- Achieved proficient model performance through meticulous implementation and tuning.
- This project not only showcased proficiency in deep learning methodologies but also demonstrated expertise in leveraging industry-standard tools for efficient model management and evaluation

Movie Recommendation System | *Sci-kit Learn, python, TF-IDF, cosine similarity*
- Developed a Movie Recommendation System using Python, focusing on feature selection and classifier optimization. Applied Tf-IDF vectorization and cosine similarity for accurate recommendations.

Education

Central University of Rajasthan	Expected June 2024
M.Sc. in Computer Science (Big Data Analytics) (CGPA: 8.1 / 10)	*Ajmer, Rajasthan*

- **Relevant Coursework:** Machine Learning, Deep learning, Data analysis, Prob & Stat in CS (Python), Linear Algebra w/Computational Applications (Python)

Indira Gandhi National Tribal University	Passed June 2022
Bachelor In Computer Application) (CGPA: 8.46 / 10)	*Amarkantak, Madhya Pradesh*

- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Linear Algebra w/Computational Applications (Python), Java

Technical Skills

Languages: Python, Java, C++/C
Technologies: Django, Flask, Tensorflow, Docker, git, selenium
Concepts: Machine Learning, Neural Networks, Probability Distribution, Data analysis, NLP, MySQL, Simple-JWT token