



Ritesh Pal

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Projects

- **Automated Athlete Tracking for Performance Evaluation Using Deep Learning** March 2025
 - Developed a real-time player tracking system using YOLOv8 and SORT for sports performance analysis.
 - Implemented a computer vision pipeline to detect and track soccer players from broadcast footage.
 - Optimized tracking accuracy in challenging scenarios involving occlusion and rapid movement.
 - Evaluated system performance using benchmark datasets and custom game recordings.
 - Designed the system to support future integration with pose estimation and tactical analysis modules.**Tech:** YOLOv8, SORT, TensorFlow, OpenCV
- **Credit Card Fraud Detection Mechanism** October 2024
 - Developed a machine learning model to detect fraudulent transactions.
 - Processed datasets using Python libraries like Pandas, NumPy, and Seaborn for exploratory data analysis (EDA).
 - Implemented various ML algorithms and optimized feature selection to improve accuracy.
 - Leveraged Git for version control, actively collaborating on debugging and testing.**Tech:** Python, Pandas, NumPy, Seaborn, Scikit-learn, Git
- **Intelligent Chatbot for POS-tagging using NLP and deep learning** September 2024
 - Applied analytical skills to enhance NLP-based POS tagging accuracy, optimizing linguistic processing.
 - Led cross-functional teams to develop and deploy an AI-driven chatbot for intelligent text analysis.
 - Leveraged deep learning models (LSTMs, BiLSTMs, Transformers) to improve contextual word tagging.
 - Managed the end-to-end development lifecycle, ensuring timely delivery and high-performance standards.
 - Developed solutions, driving efficiency improvements and enhancing chatbot intelligence.**Tech:** NLTK, SpaCy, Stanza, Flair

Certificates

- Ethical Hacking course by IIT KGP (Among Top 5%)** October 2024
NPTEL — [Certificate Link](#)
- Complete Machine Learning and Data Science Program by GFG** August 2024
GFG — [Certificate Link](#)
- Dynamic Programming, Greedy Algorithms** May 2024
Coursera — [Certificate Link](#)

Skills

Languages : C++, Java, JavaScript, Python, HTML5, CSS

Developer Tools: Git, GitHub, Ubuntu, Docker, Kubernetes, MySQL, MLOps

Soft Skills: Problem-Solving Skills, Team Player, Curious and driven, Adaptability

Frameworks: OpenCV, NumPy, Pandas, Matplotlib, seaborn, NLTK, Stanza, Flair

Extra-curricular

- Worked with an NGO Mahila Unnati Sansthan, India for two months. June – July 2023
- Engaged in community service initiatives as an active member of Sewa Bharti. December 2017 – March 2020

Education

- Lovely Professional University** 2022 – 2026
Computer Science and Engineering — CGPA: 8.55 Phagwara, Punjab
- Swami Vivekanand Saraswati Vidhya Mandir** 2019 – 2021
Higher Secondary (Science) - Percentage: 95% Sahibabad, Uttar Pradesh
- Swami Vivekanand Saraswati Vidhya Mandir** 2017 – 2019
Secondary School (Science) - Percentage: 95.6% Sahibabad, Uttar Pradesh