Pratik Singh

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Profile

Pursuing Computer Science Engineering at Bennett University with 3 years of experience in AI and ML projects (Scikit-learn). Proactive, detail-oriented, and skilled in managing project lifecycles, including requirement analysis, development, testing, and deployment. Known for a collaborative approach and problem-solving mindset.

Education

Bennett university 10/2022 – 06/2026

Greater noida, India

Professional Experience

Management Head – Robotics Process Automation (Bennett University, Aug 2023 – May 2024)

- Led RPA projects from planning to deployment.
- Supervised cross-functional teams to achieve project milestones.
- Streamlined workflows and enhanced efficiency through automation.
- Collaborated on innovative solutions using tools like UiPath and Blue Prism.

Trainee – Aigen (June 2024 – September 2024)

- Gained hands-on experience in prompt engineering and LLMs.
- Enhanced technical skills in LLMs and MongoDB.
- Contributed to team projects, demonstrating adaptability and a strong learning ability.

Skills

— Programming: Python, Basic C++ | Database: SQL | Machine Learning & Deep Learning | Model Fine-Tuning & Generative AI: GANs | Dev Tools: Git, Streamlit, Google Colab, Jupyter

Projects

Tumor Segmentation

- Designed a 3D U-Net model enhanced with spatial attention, achieving a Dice score of 0.87 on tumor core segmentation and 0.91 on edema regions.Reduced segmentation error rates by 18% compared to baseline 3D U-Net models.Validated the model's performance on the BraTS20 dataset with 250+ MRI scans, showcasing reproducible and robust results.Conducted ablation studies demonstrating a 12% performance boost with the inclusion of spatial attention layers.

Artic species classification using machine learning

Built a machine learning model to classify penguin species using the Palmer Penguins dataset with features like bill length, flipper length, and body mass. A Random Forest Classifier was employed, achieving reliable predictions. Developed an interactive Streamlit web app for real-time predictions based on user inputs. The project covered data preprocessing, model training, deployment, and interface design, with feature importance analysis for enhanced model interpretability.

Awards

Secured 1st position in Association of inter university group stage, *Football tournament* 26/11/2024

secured 1st position in different university sports fest

Actively represent the university as part of the football team, demonstrating teamwork, leadership, and a strong commitment to physical fitness. Participate in intercollegiate tournaments, contributing to team success through dedication and strategic gameplay. Developed time management skills by balancing academic responsibilities with rigorous training schedules.

Certificates

• Introduction to Computers and Operating Systems
• Hands-On Generative AI
• Unsupervised Machine Learning
• Sample-based Learning Method
• Exploratory Data Analysis for ML