Ishant Raj Kashyap

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Education

- **University of Allahabad** — Prayagraj, Uttar Pradesh
  B.Tech in Electronics and Communication Engineering; CGPA: 7.1/10 — *Sep 2023 - Jun 2027*
- **R.P.S School** — Bihar Sharif, India
  Intermediate (Senior Secondary); Percentage: 80.0% — *Apr 2020 - May 2022*

Skills Summary

- **Languages**: Python, C++
- **Libraries/Frameworks**: Pandas, NumPy, Scikit-learn, OpenCV, Matplotlib, Seaborn
- **Machine Learning**: Regression, PCA, Gradient Descent, Classification, Correlation
- **Deep Learning**: Neural Networks, CNN (Convolutional Neural Networks)
- **Tools**: Jupyter Notebook, Google Colab, VS Code, Git
- **Foundational Skills**: Data Structures and Algorithms, Power Analysis, Optimization

Experience

- **Simplilearn** — Online
  AI Engineer Certification — *2025*
  - **Comprehensive AI Training**: Completed industry-oriented modules covering machine learning, deep learning, natural language processing, and computer vision.
  - **Practical Projects**: Implemented projects including a sentiment analysis model, image classification using CNN, and a recommendation system.
  - **Skills Gained**: Regression, Classification, Neural Networks, CNN, Data Preprocessing, Model Evaluation.
- **Coursera - Duke University** — Online
  MLOps Specialization — *2025*
  - **MLOps for Production**: Learned how to deploy, monitor, and scale ML models in production environments.
  - **Hands-on Experience**: Worked with CI/CD pipelines, model versioning and MLflow for model lifecycle management.
  - **Applied Knowledge**: Deployed a machine learning model on cloud infrastructure with automated monitoring and retraining setup.
- **Udemy** — Online
  C++ Programming Course — *2024*
  - **Object-Oriented Programming in C++**: Studied core C++ programming concepts including OOP, inheritance, polymorphism, and STL.
  - **Practical Implementation**: Developed mini-projects such as a Library Management System and Student Database Manager.
  - **Problem-Solving Skills**: Practiced solving 100+ coding exercises to strengthen algorithmic thinking and competitive programming ability.

Academic Projects

- **Spotify Song Cohort Project**
  Data Science / Machine Learning Project — *2025*
  - **Performed song clustering**: Grouped Rolling Stones songs into cohorts using K-means and PCA for personalized recommendations.
  - **Tech Stack**: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook.
  - **Outcome**: Visualized clusters and analyzed song patterns to understand similarities in audio features.
- **Employee Turnover Analysis**
  Data Analysis Project — *2025*
  - **Analyzed employee retention**: Performed exploratory data analysis on HR dataset to identify factors affecting employee turnover.
  - **Tech Stack**: Python, Pandas, Matplotlib, Seaborn, Jupyter Notebook.
  - **Outcome**: Generated insights to help HR reduce turnover and improve employee satisfaction.
- **Crop Recommendation System**
  Machine Learning Project — *2025*
  - **Built a predictive ML model**: Recommends suitable crops based on soil and weather conditions using supervised learning.
  - **Tech Stack**: Python, Pandas, Scikit-learn, Flask, Google Colab.
  - **Outcome**: Provides actionable crop recommendations for farmers to optimize yield.