Ayush Kumar Pandey Lucknow, India

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PROFESSIONAL SUMMARY

Computer Science undergraduate with hands-on experience in AI/ML, Data Engineering, and backend development. Skilled in building ML-powered applications, automated data pipelines, and scalable backend systems using Python, Java, SQL, Spark, Flask, and Snowflake. Solved 200+ DSA problems and seeking Software Engineering, Data Engineering or AIML internships.

EDUCATION

Babu Banarasi Das Northern India Institute of Technology – B.Tech in Computer Science and Engineering Oct 2023- Jun 2027
Courses: Operating Systems, Data Structures, Design and Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, DBMS and etc.

SKILLS SUMMARY

- **Languages:** Python, Java, SQL, JavaScript, C++ .
- **Frontend:** HTML, CSS, React.js.
- **Data Engineering:** Apache Spark (PySpark), Hadoop, Snowflake, ETL, Data Pipelines.
- **Machine Learning:** TensorFlow, Scikit-Learn, Seaborn, Pandas, NumPy, Matplotlib.
- **Backend:** Flask, Rest APIs, MYSQL, PostgreSQL, MongoDB.
- **Tools:** Git, GitHub, Docker, Linux, Postman, Agile.

INTERNSHIP

Infosys Springboard Virtual Internship – AI Domain GitHub || Demo URL
Nov 2025 – Jan 2026

- Completed training modules in **Artificial Intelligence, Machine Learning, and Data Analysis**.
- Built and implemented EcoPackAI, an AI-driven packaging recommendation system using ML and Flask.
- Performed **data preprocessing, feature engineering, and dataset preparation** for machine learning models.

PROJECTS

Video Authenticator - AI Media Forensic & Deepfake Detection Engine GitHub || Demo URL

Tech Stack: Python, Computer Vision(OpenCV), NumPy, SciPy, Matplotlib, Signal Processing (2D FFT), Django, Cloud Deployment

- **Computer Vision & Signal Processing:** Built OpenCV & 2D-FFT engine to detect AI video & face-swap artifacts.
- **Feature Modeling:** Extracted PRNU camera noise residuals & Laplacian blur to score video AI likelihood.
- **Cloud Deployment:** Deployed real-time Django inference app live on Render with gunicorn & WSGI.

Krishi-Mitra - AI Agricultural Guidance Platform GitHub || Demo URL

Tech Stack: Python, Flask, TensorFlow, MySQL, Machine Learning, APIs .

- Built a TensorFlow-based CNN model achieving ~90% accuracy for crop disease detection.
- Integrated Weather API, LLM API, and Hindi voice support for real-time agricultural guidance.

ACHIEVEMENTS

- Solved **200+ DSA problems** across Leet Code and Geeks for Geeks.
- Secured 3rd Place in the INVEDX Coding Competition at BBDNIIT.

CERTIFICATIONS

- Databricks Fundamentals Accreditation - Databricks Academy (2026)
- Get Started with Data Engineering - Databricks Academy.
- Get Started with AI Agents - Databricks Academy.
- Infosys Springboard AIML