AMAN KUMAR SRIVASTAV

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Professional Profile

Engineering undergraduate applying analytics and structured problem-solving to real-world challenges. Built data-driven models across agritech and fintech, translating analysis into actionable insights. Proven execution in competitive environments through national hackathon wins.

Experience

Data Analytics - AI/ML Intern, AgNext Technologies   Jan 2026 – Present
- Designed and optimized predictive models for moisture estimation using feature engineering and statistical analysis on IoT-enabled devices, achieving a mean absolute error of 0.2 moisture units.
- Built end-to-end data processing pipelines and structured raw sensor data for reliable model training.
- Analyzed environmental and temperature variability to refine calibration logic, improving robustness and consistency of moisture predictions across field conditions.

Skills

- **Data & Analytics**: SQL, Excel, Power BI, KPI Tracking, Dashboards, Microsoft Office, Trend Analysis
- **Programming & Tools**: Python (Pandas, NumPy,OpenCV,Matplotlib), R, Streamlit, Git, GitHub.
- **AI & ML**: Machine Learning (Regression, Classification, Anomaly Detection), scikit-learn, Computer Vision.
- **Product & Research**: User Research, Competitive Benchmarking, Product Strategy, Market Analysis
- **Soft Skills**: Leadership, Team Collaboration, Communication, Problem Solving, Critical Thinking.

Projects

Krishi Sakhi- Digital friend who walks with the farmer throughout the crop cycle (SIH 2025)
- Built a multimodal AI pipeline using CNNs and satellite imagery to assess crop health across different stages
- Added carbon credit estimation allowing farmers to reduce GHG emissions by up to 30% and monetize sustainable practices.

Meat Spoilage Detection– NIR Sensor and Image-Based Model
- Analyzed 500+ NIR microscopic samples to identify spoilage patterns and structure unlabelled image data for predictive modeling.
- Engineered intensity-based features to support automated assessment and reduce reliance on manual inspection.

SecuEAR – Ear Based Biometric Authentication System (National NPCI Hackathon Winning Project)
- Developed a machine learning model using SVM and OpenCV for secure, contactless retail payments
- Processed and analyzed 3D ear scan data (depth maps) to extract features and evaluate accuracy for real-world identification tasks.

Achievements

- Led team to victory in **NPCI Fintech Hackathon at IIT Delhi (2025)** – delivered and pitched a working MVP for a real world fintech challenge against top teams from across the country.
- Certificate of Achievement as Team Lead at **IISc Urban Vision Hackathon (2025)**.
- Awarded **Certificate of Achievement by PEC** for top technical contributions (2024–25).
- College Finalist, nominated by PEC for **Smart India Hackathon 2024 and 2025**.

Education

B.Tech in Metallurgical and Materials Engineering   **Year: 2023 – 2027**
Minor Specialization in Data Science, *Punjab Engineering College, Chandigarh*   CGPA: 7.42 (Current)

Position of Responsibility

- **Team Leader, NPCI Hackathon** – Coordinated development, reporting, and pitch delivery.
- **Executive Member, IIM PEC** – Organised orientations and Technical events for 500+ students.