

ANKIT DEY

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PROFESSIONAL SUMMARY

Data Analytics & AI/ML enthusiast skilled in **Python, SQL, Power Bi, TableAu, Python Libraries, Excel and Notebooks** with **hands-on experience** in **building predictive models, automating data cleaning workflows, and creating visual dashboards**. Passionate about leveraging data modeling and machine learning to drive product intelligence and decision-making in fintech environments.

EDUCATION

Haldia Institute of Technology

Applied Electronics and Instrumentation Engineering
June, 2026
Haldia, IN
8.13 CGPA

CBSE, XII - HEM SHEELA MODEL SCHOOL
March, 2020
Core Science – 74.2%

TECHNICAL SKILLS

- Programming & Data: Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow (basic)
- Data Extraction: PDF → Excel, HTML Tables, Web Scraping (BeautifulSoup), OCR (Tesseract)
- Excel & Automation: Excel Dashboards, Pivot Tables, VLOOKUP/XLOOKUP, Power Query, VBA (Macros)
- Data Visualization: Power BI, Tableau (Basics), Matplotlib, Seaborn
- Statistical Analysis: Descriptive Stats, Correlation, Hypothesis Testing
- Data Engineering: ETL Pipelines, API Integration, Data Quality Checks, Validation Audits
- Version Control: Git, GitHub

PROJECTS

Credit Card Fraud Detection (AI/ML MODEL) | REPORT Python, Scikit-learn, Data Preprocessing

- Designed a fraud detection model using Logistic Regression, Decision Tree, and Random Forest with Scikit-learn.
- Handled **data cleaning, feature scaling, and class imbalance correction (SMOTE)** on a **284K-record Kaggle dataset**.
- Improved **precision from 28% → 33%** while maintaining **99.6% accuracy**, strengthening detection reliability.
- Built a **modular pipeline architecture** supporting multi-model integration for scalability.
- Evaluated models using **accuracy, recall, and F1-score**, outlining use in **real-time fintech fraud systems**.

House Price Prediction using Linear Regression | REPO Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

- Developed a **Linear Regression model** to estimate housing prices based on numerical and categorical property features.
- Conducted EDA, handled missing values, and evaluated model performance using **Mean Squared Error** and **R² score** metrics.
- Model achieved **R² ≈ 0.87** on test data, indicating strong predictive accuracy.

 **Wine Quality Prediction** | REPO Python, Scikit Learn, Pandas, NumPy

- Built predictive models (**Random Forest, SVC, SGD Classifier**) to classify wine quality from physicochemical features such as **acidity** and **alcohol content**.
- Performed data cleaning, feature correlation, and performance evaluation using accuracy, precision, and recall metrics.
- Result: Achieved **91% accuracy** with **Random Forest**; visualized key relationships via **heatmaps**.

Project: Project Samarth – Intelligent Q&A System (Bharat Digital Fellowship Challenge) | WEB APP

- Designed and deployed an intelligent data-driven Q&A system using Streamlit and Python, integrating real datasets from the Ministry of Agriculture and IMD to analyze India's agricultural and climate patterns.
- Implemented data cleaning, merging, and real-time querying pipelines to answer complex, natural language questions with accurate, source-cited insights.
- Deployed a live, interactive web app on Streamlit Cloud for public access and policy-oriented data exploration.

PROFESSIONAL SKILLS

- Clear written and verbal communication for stakeholder collaboration.
- Strong analytical thinking with data-driven problem solving, critical thinking, and ability to navigate ambiguous tasks independently or in teams.
- Independent contributor with cross-functional teamwork and adaptability.
- Efficient time management and system optimization through project execution.
- Strong attention to detail with experience performing data accuracy checks and quality audits.

INTERNSHIPS

Data Analytics & AI/ML Intern | Oasis Infobyte | Oct 2025 – Nov 2025

OFFER LETTER

- Clean, transform, and model structured and semi-structured datasets using Python, Pandas, and NumPy to support AI/ML initiatives.
- Build and maintain ETL pipelines and prepare model-ready datasets for segmentation, prediction, and scoring.
- Assist in developing machine learning models (classification, regression, clustering) and feature engineering for product insights.
- Create dashboards and visualizations to deliver actionable insights for business and product stakeholders alongwith conducting data quality checks and validation audits to ensure accuracy of extracted and transformed datasets

Key Tools & Skills: Python, SQL, Pandas, NumPy, scikit-learn, TensorFlow (familiar), ETL/Pipelines, Dashboards, ML Models.

Data Analyst – I (Trainee Intern) | Intrainz Innovation | Jul 2025 – Sep 2025

CERTIFICATE

- Designed interactive dashboards for healthcare data, enhancing insights and decision-making.
- Processed patient datasets, applied data preprocessing and anomaly detection.
- Collaborated on data-driven product improvements—aligned with fintech data initiatives.
- Ensured data consistency and usability through SQL-based preprocessing and performance optimization.
- Performed data extraction from PDFs, web pages, and semi-structured text sources and converted them into structured Excel datasets.

AI and Machine Learning Industrial Internship | CERTIFICATE

Ardent Computech

Sep 2024 – Nov 2024

- Gained hands-on exposure to **AI model deployment, data security, and anomaly detection**.
- Applied **ML algorithms** for identifying irregularities in large datasets, improving model reliability.

Industrial Trainee | Certificate

MCPI, Haldia

- Trained in industrial safety norms.
- Assisted operations and instrumentation teams with data collection, monitoring, and reporting activities within industrial manufacturing processes.
- Supported routine inspections, documentation, and process control tasks to ensure operational safety and efficiency.

CERTIFICATIONS AND RECOGNITION

- Certified by IBM in Data Analysis with Python | Badge
- Certified by Deloitte in Deloitte in Data Analytics Job Simulation | Certificate
- Certified by Oracle Corporation in Data Science | Certificate
- Certified by HackerRank in Advanced SQL | Certificate
- Certified in Data Science & Analytics (HP LIFE) with hands-on knowledge of leading practices, methodologies, and tools for driving data-driven business decisions. | Certificate
- Obtained the "Getting Started with Tableau" certificate from Analytics Vidhya, in interactive dashboard development, data visualization techniques, and translating data into actionable insights. | Certificate
- Certified in Data Analysis with Apache Hive – gained hands-on expertise in big data querying, data warehousing, and analytical processing. | Certificate