AJAY BORA

boraajay26@gmail.com | +918630803571 | Haldwani, Nainital, 263139 | Github | Linkedin

PROFILE SUMMARY

Analytical and results-driven Data Science and AI/ML undergraduate with hands-on experience in building scalable data pipelines, predictive models, and intelligent systems. Proficient in Python, SQL, BigQuery, and modern machine learning frameworks. Passionate about transforming complex datasets into actionable insights and robust data engineering solutions.

EDUCATION

- Amrapali University – Bachelor of Technology in CSE (AI/ML).
- Expected Graduation (August 2028).

TECHNICAL SKILLS

- **Languages**:Java,Python,C, SQL, HTML/CSS
- **DataEngineering andCloud** : AWS,Google Bigquery, Docker and Kubernetes, Git/Github, ETL, Pipelines
- **Machine Learning** : Scikit-Learn, Pandas, Numpy, YOLO, tensorflow
- **Visualization and Analytics** : Tableau, PowerBI, Streamlit, Plotly, Seaborn, Matplotlib, Excel
- **Databases and Frameworks** : MySQL, Oracle, Relational Schemas, Flask, Generative AI(LLMs)
- **CoreConcepts** : Data Structures and Algorithms, APIs, Mathematics

EXPERIENCE

Data Visualization Intern **(Infosys | Feb 2026 - Present)**

- Designed and orchestrated an automated ETL pipeline using Python and Pandas, successfully ingesting, cleaning, and preprocessing 132K+ unstructured global weather records from the Kaggle API.
- Conducted rigorous statistical analysis of large datasets to extract seasonal trends, determine variable correlations, and identify 99th-percentile anomalous extreme weather events globally.
- Developed an interactive dashboard using Streamlit and Plotly, engineering dynamic choropleth maps and complex time-series charts to visualize regional climate findings for non-technical stakeholders.

Data Science with AI/ML Intern **(YBI Foundation | Jan 2025 – March 2025)**

- Engineered a Weather Prediction Model employing advanced regression algorithms, achieving a 92% accuracy (R2 Score) on a continuous historical dataset of 10,000+ records.
- Optimized data preprocessing workflows using Pandas and Scikit-Learn to clean and normalize meteorological data, effectively reducing model training time by 20%.

PROJECTS

Poshan Pahad AI

- Developed an AI-powered conversational assistant to provide hyper-localized nutritional and agricultural guidance for hilly regions.
- Dockerized the application environment to ensure seamless deployment and consistent performance across different development and production stages.
- Integrated Generative AI pipelines and NLP to contextually answer queries regarding regional crop nutrition and dietary health.

Virtual Assinstent

- Developed a Python-based intelligent assistant using Gemini AI and Speech Recognition to automate system tasks, fetch real-time data via REST APIs, and provide context-aware voice interactions with a custom-engineered wake-word system.
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Full Library Management System

- ArchitectedascalableNode.js/Python backend system to manage book inventory and secure user account authentication.
- Applied foundational data engineering practices by designing a normalized MySQL (OLTP) relational database schema.
- Managed secure data flow, ingestion, and state querying via scalable RESTful API routes.

Anime and Movie Recommendation Systems

- Engineered a scalablecontent-basedrecommendation engine utilizing Python, Pandas, and Scikit-Learn.
- Deployed Cosine Similarity algorithms processing tens of thousands of user preferences to deliver highly personalized suggestions efficiently.