

AJAY BORA

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PROFILE SUMMARY

Engineering student with hands-on software development experience across cloud infrastructure, backend services, and automated data systems. Built and deployed serverless applications on AWS and Vercel, including a 443K-record automated pipeline and an OCR-based document processing system. Comfortable across the full development lifecycle - implementation, testing, debugging, and deployment — with working knowledge of Python, SQL, and cloud infrastructure (AWS).

EDUCATION

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

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, HTML/CSS, Javascript

Software Development: REST APIs, Flask, FastAPI, Docker, Git, CI/CD (GitHub Actions)

Machine Learning: Scikit-Learn, Pandas, Numpy, tensorflow, Regression Modeling

Testing & Quality: dbt tests, pytest, automated CI test suites

Cloud and Infrastructure: AWS (Lambda, S3, Textract, Bedrock), Vercel, ETL Databases: MySQL, PostgreSQL

Core Concepts: Data Structures and Algorithms, APIs, Mathematics, Linux (Ubuntu)

EXPERIENCE

Software Developer Intern

Buimb Research, Uttarakhand | 6-Month | June, 2026 - Present

- Developing an AWS-based hosting and deployment platform for the Buimb Digital website, supporting web, application, VPS and cloud hosting. Contributing to cloud architecture, AWS configuration, deployment workflows, security, testing, troubleshooting and technical documentation.

Data Visualization Intern

Infosys Springboard | Feb 2026 – April 2026)

- Built Climate Scope — automated ETL pipeline (Python/Pandas) ingesting 132K+ weather records; interactive Streamlit/Plotly dashboard with choropleth maps across 3,000+ locations.
- Conducted rigorous statistical analysis identifying 99th-percentile extreme weather anomalies, seasonal trends, and variable correlations across large-scale global datasets.

Data Science and AI/ML Intern

(YBI Foundation | Jan 2025 – March 2025)

- Built Weather Prediction Model - regression-based ML model achieving 92% R^2 accuracy on 10,000+ historical records; optimized preprocessing pipelines cutting training time by 20%.

PROJECTS

Smart doc-Renamer

(AWS Lambda, Amazon S3, Amazon Textract, Amazon Bedrock, Python, API Gateway)

- Built serverless data pipeline to extract text from PDFs using Amazon Textract OCR, structuring output for downstream use
- Integrated Amazon Bedrock (LLM) to auto-generate standardized filenames from extracted document content
- Designed batch processing workflow delivering results as downloadable ZIP via presigned S3 URL, exposed through API Gateway
- Resolved production issues including IAM permission scoping, CORS errors, and API Gateway integration failures

Poshan -Pahad AI

React, TypeScript, FastAPI, Google Gemini AI, Docker

- Built a full-stack, multimodal AI web app for indigenous food heritage preservation using Google Gemini 2.0 Flash
- Delivered four AI-powered features: nutritional analysis, recipe generation, an Ayurvedic health chatbot, and local produce discovery
- Containerized the full stack (React frontend, FastAPI backend) with Docker for consistent deployment

Anime and Movie Recommendation Systems

Python · Scikit-Learn · Cosine Similarity

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

Open Source Contributions

pgmpy — Probabilistic Graphical Models library (backed by GC.OS, official GSoC org)

- **PR #3310** (merged): added configurable edge-reversal penalty to SHD metric for weighted causal graph comparison
- **PR #3330** (merged): migrated 92-file citation system to sphinx-contrib-bibtex, built centralized BibTeX reference database (113 entries)