

Aryan Dubey

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Seeking to leverage data analytics and machine learning expertise through a real-world internship.

EDUCATION

Texas Tech University, Lubbock, Texas
Bachelor of Science in Computer Science
Minor in **Mathematics**

Expected graduation: **May 2027**
GPA: 3.9

WORK EXPERIENCE

Texas Tech University System – Communication Services, Lubbock, Texas
Information Technology - Student Assistant

September 2023 – Present

- Deployed **Python/REST API automation** for data workflows; slashed manual IT workload by 95%.
- Developed a **Random Forest** classification model to categorize 5K+ IT requests, reducing manual triage time by 60%.
- Strengthened network security with data protection strategies; reduced breach risk by **40%** and improved CRM performance.

TECHNICAL PROJECTS

Hackathon Wins: TempTerra & FleetRank

September 2024 – November 2024

- **TempTerra** - Predictive Resource Optimization (**HackTX 2024: Winner**)
[Python | SQL | Terraform | AWS]
 - Architected an **ETL pipeline** to process 10K+ AWS CloudWatch logs, utilizing **SQL** for anomaly detection and identifying infrastructure over-provisioning in real-time.
 - Modeled **predictive usage model** - improved scaling accuracy by **40%**.
 - Automatized idle app termination - reduced memory use by **60%**, saving resource usage.
 - Integrated **SQL anomaly detection** - flagged over-provisioning in real time.
- **FleetRank** - Real-Time Analytics (**HackWesTX 2024: Winner**)
[ReactJS | NextJS | MongoDB | NodeJS | PowerBI]
 - Architected a real-time ETL pipeline for 1,000+ records using Node.js and MongoDB.
 - Applied **KPI weighting & statistical analysis** - ranked **15+ fleets**, identified efficiency gaps.
 - Developed an **interactive dashboard** - improved productivity by **30%**.
 - Implemented **predictive trend modeling** - forecasted maintenance issues, reducing downtime by **25%**.

Codet – www.codetclub.com

January 2025 – Present

[React | Node.js | MongoDB | Gemini API | Vercel]

- Architected 3 practice modes (Technical, Behavioral, Mixed) to simulate real-world **interviews for 50+ users**.
- Engineered an **NLP engine** using Gemini API and Cosine Similarity to analyze keyword density, increasing ATS compatibility scores by 25%.
- Optimized system architecture on Vercel and Render to deliver real-time **AI feedback** with <2s latency.
- Developed a centralized dashboard to track student progress across **100+ industry-standard mock scenarios**

Healthcare Data Pipeline – WestFax & Athena Health

January 2026 – Present

[Python | REST APIs | HIPAA | JSON | Data Pipeline]

- Engineered a secure **ETL pipeline** to integrate **WestFax API** with **Athena EHR** for automated document ingestion.
- Developed custom scripts to process **500+ daily medical records**, ensuring **100% HIPAA-compliant** data encryption.
- Optimized **API interoperability**, reducing clinical data entry time by 40% through real-time status synchronization.

INVOLVEMENT

CodePath TTU - Tech Lead (Facilitator, "Mentor")

August 2023 – Present

- Led MERN stack workshops, training 50+ students in industry-grade web development.
- Developed and led workshops on **Machine Learning and Data Analytics**, mentoring 50+ students on **Exploratory Data Analysis (EDA)** and **Predictive Modeling** techniques.
- Made a full-fledged website codepathttu.org along with a CMS (Customer Management System).

TECHNICAL SKILLS

- **Languages & Analytics:** Python (Pandas, NumPy, Scikit-learn), SQL, Data Structures & Algorithms, Statistical Analysis.
- **Data Science & BI:** Tableau, Power BI, Matplotlib, Seaborn, Data Cleaning & Wrangling, Feature Engineering.
- **ML & Cloud:** Regression (R^2), Classification, NLP, AWS, MongoDB, MySQL, Firebase, Terraform, Docker.
- **Dev & Tools:** MERN Stack, REST APIs, Git, Jupyter Notebook, Postman, JIRA, TailwindCSS.