Aditya Shahi

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Education

University of Alberta — Edmonton, AB
Bachelors in Computing Science, Minor in Bioinformatics — *Sept. 2021 – Sept 2025*

Experience

Data Analyst Intern — May 2022 – Aug 2022
Doon International School — *Punjab, India*

- Analyzed performance data of 500+ students using Python and SQL, improving educational strategies.
- Optimized school databases, boosting efficiency by 30% and ensuring 98% report accuracy.
- Developed and implemented automated data processing scripts, reducing manual data entry time by 50%.
- Created 20+ data presentations using Microsoft Office for strategic decision-making.

Projects

QrazyQRsRUs - Event Management & Check-in System | *Java, Geolocation API, Firebase, Android Studio*

- Developed a full-stack event management app with QR code-based check-ins, facilitating real-time tracking for over 50 events and 5,000 attendees.
- Implemented Firebase for authentication and data storage, ensuring secure access for 2,000+ users and seamless data management.
- Set up notification servers and integrated geolocation APIs, increasing attendee engagement by 40% and enhancing security measures.
- Collaborated with a team of 5 developers using GitHub, adhering to object-oriented principles, resulting in a 30% reduction in check-in times and a 99% crash-free rate.
- Adopted by multiple event managers for efficient coordination, leading to a 30% reduction in check-in times and improving overall event experience.

DebtDefender ML Model | *Python, NumPy, Matplotlib, Jupyter Notebook*

- Created a Decision Tree & Naive Bayes classifier in Python, achieving a 96% accuracy rate for predicting loan repayment probabilities.
- Conducted data mining on 21 financial indicators, significantly enhancing the accuracy of creditworthiness evaluations.
- Utilized Jupyter Notebook to develop and document data analysis workflows, ensuring reproducibility and transparency.
- Implemented feature engineering techniques to improve model performance and interpretability.

Automated Timetable Scheduling System | *Python, CSP, A.I Planning*

- Designed and developed a backend scheduling engine using Python, CSP, and AI, automating timetable creation.
- Implemented advanced heuristics, reducing computation time by over 60% and enhancing system performance.
- Optimized scheduling algorithms for real-world application, showcasing technical proficiency and problem-solving skills.
- Improved data processing workflows, ensuring accurate and efficient timetable generation for educational institutions.

Technical Skills

Languages: Java, Python, C#, C++, SQL , JavaScript, HTML/CSS, Dart
Frameworks: React, Node.js, Flutter, JUnit, Bootstrap, Material-UI, Django, Kotlin
Developer Tools: Git, Docker, Figma, AWS, Google Cloud Platform, VS Code, Android Studio, Tableau, Power Bi
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn,TensorFlow