Aryan Aryashrestha

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OBJECTIVE

Always eager to learn and build, I am a B.Tech Data Science student with hands-on experience in data science, analytics, and networking projects. Skilled in Python, SQL and machine learning, I enjoy solving problems through logical thinking and practical applications. I'm looking for opportunities where I can apply my technical expertise, collaborate with teams, and grow while contributing to impactful solutions.

EDUCATION

Manipal University Jaipur — Rajasthan, India

BTech Data Science and Engineering - 8.59 CGPA — Sep 2021 - July 2025

D.A.V Public School — Hazaribag, Jharkhand, India

Senior Secondary(PCM+CS) - 89.4% — 2021

SKILLS

Programming & Analytics: Python, SQL, PL/SQL, A/B Testing, Data Analytics, Data Science, Machine Learning, Deep Neural Networks

Data Visualization & BI Tools: Alteryx, Matplotlib,Seaborn

Frameworks & Libraries: TensorFlow, Keras, Scikit-Learn, Pandas, NumPy

Databases & Cloud: MySQL, SQL (Relational Databases), AWS (Basics), Docker

Networking & Tools: Cisco Packet Tracer, Git, GitHub, MS Excel, Linux, API Integration

Professional Skills: Problem Solving, Logical Thinking, Team Collaboration, Technical Presentation, Business Development, Digital Marketing

WORK EXPERIENCE

Rocket Learning — Remote

Data Intern — May 2024 - July2024

• Led product analytics for a new vertical focused on early stimulation for children under 3 years, diving in-depth analysis for the first-ever pilot run across 2 states and 600 families

• Collaborated with and presented findings to founders and project leaders on product, operations, and impact evaluation

• Developed pipelines and dashboards to track key metrics; analyzed data to enhance user activation to 80%+, engagement to 40%+ and retention

• Conducted regression analysis on child development outcomes, demonstrating a positive impact from the program.

• Built automated ETL pipelines and workflows using Alteryx, streamlining data processing and reducing manual effort.

• Utilized A/B testing and statistical methods to provide actionable insights for product feature improvements and decision-making.

PROJECTS

HeartBeatAI : Next-Gen AFib Detection with Deep Learning

• Built a hybrid CNN–BiLSTM model with attention to detect atrial fibrillation from ECG data, achieving 88% recall.

• Optimized model for real-time inference (<25 ms latency) and deployed with TensorFlow Lite & Flask web app with interpretability (Grad-CAM).

• Tools & Tech: Python, TensorFlow/Keras, NumPy, Pandas, Matplotlib, Flask, TensorFlow Lite.

EEG-Seizure Detection Model using Deep Learning

• Designed and trained DenseBlock and CNN models on EEG data to classify seizure vs. non-seizure states, achieving 96.5% accuracy.

• Preprocessed and standardized EEG signals, applied feature scaling, and evaluated models with confusion matrices and accuracy curves.

• Tools & Tech: Python, TensorFlow/Keras, Pandas, NumPy, Scikit-learn, Matplotlib.

AI-Chess Bot

• Implemented minimax algorithm with alpha–beta pruning and evaluation functions to simulate intelligent chess moves.

• Integrated Stockfish chess engine with a Flask-based web app, enabling AI vs. Human and AI vs. Stockfish gameplay.

• Tools & Tech: Python, Flask, Stockfish Engine, Chess Library, HTML/CSS.

Network Intrusion Detection System (NIDS)

• Built a real-time Network Intrusion Detection System (NIDS) to capture live traffic, detect port scans, SYN floods, and unauthorized access attempts, and log alerts to a database.

• Designed a web-based dashboard to visualize alerts, severity trends, and intrusion statistics, improving monitoring and analysis capabilities.

• Tools & Tech: Python, Scapy, PostgreSQL, Flask, Docker

HOBBIES AND INTERESTS

• Reading light novels and exploring digital storytelling formats

• Playing strategy-based and online multiplayer games, sharpening analytical and teamwork skills

• Driving and exploring new routes, often using navigation and mapping tech

• Listening to music, exploring recommendation algorithms and new platforms