

# Aryan Aryashrestha

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## OBJECTIVE

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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

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<b>Manipal University Jaipur</b>	Rajasthan, India
<i>B.Tech Data Science and Engineering - 8.59 CGPA</i>	Sep 2021 - July 2025
<b>D.A.V Public School</b>	Hazaribag, Jharkhand, India
<i>Senior Secondary(PCM+CS) - 89.4%</i>	2021

## SKILLS

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**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

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<b>Rocket Learning</b>	Remote
<b>Data Intern</b>	May 2024 - July 2024
<ul style="list-style-type: none"><li>• 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</li><li>• Collaborated with and presented findings to founders and project leaders on product, operations, and impact evaluation</li><li>• Developed pipelines and dashboards to track key metrics; analyzed data to enhance user activation to 80%+, engagement to 40%+ and retention</li><li>• Conducted regression analysis on child development outcomes, demonstrating a positive impact from the program.</li><li>• Built automated ETL pipelines and workflows using Alteryx, streamlining data processing and reducing manual effort.</li><li>• Utilized A/B testing and statistical methods to provide actionable insights for product feature improvements and decision-making.</li></ul>	

## PROJECTS

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### 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

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- 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