

ARANYA JANA

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EDUCATION

M. Tech. in Computer Science and Engineering (AIML) – CGPA: 8.9	2025 – 2027
B. Tech. in Computer Science and Engineering (AIML) – CGPA: 7.6	2021 – 2025
Higher Secondary (12th) - Percentage: 94.6	2019 – 2021
Secondary (10th) - Percentage: 88.28	2013 – 2019

SKILLS

Languages: Python, C++

Databases: MySQL, SQL

Libraries / Frameworks: Scikit-learn, Pandas, NumPy, (Basics of TensorFlow, PyTorch)

BI / ETL Tools: Tableau, Pentaho

Developer Tools: Git, Docker, CI/CD Pipelines

EXPERIENCE

Research on Cyberbully Detection Using Machine Learning

Final Year Research Paper

Nov 2024 – June 2025

- Exploring BART and ML models (SVM, Random Forest, Neural Networks) for cyberbullying detection.
- Utilizing NLP for text preprocessing, sentiment analysis, and feature extraction.
- Optimized BART models to enhance accuracy and reduce prediction time.

PROJECTS

Celebrity Face Matcher | *Python, LLM, Deep Learning*

[LINK](#)

- Built a facial recognition system using DeepFace and cosine similarity to identify Bollywood celebrity look-alikes from user-uploaded images.
- Created an interactive Streamlit app for real-time face capture, embedding generation, and match visualization.

Customer Shopping Trends Data Analysis | *SQL, Python and Power BI* (It's currently in progress.)

[LINK](#)

- Data Analytics Portfolio Project with end-to-end industry standard Data Analysis of Customer Shopping Trends

House Prices: Advanced Regression Techniques | *Machine Learning, Python, Pandas, Scikit-Learn, Data Analytics*

[LINK](#)

- Developed a complete house price prediction pipeline using preprocessing, feature encoding, and XGBoost.
- Achieved strong performance with $R^2 \approx 0.92$ through careful data handling and modelling.

ACHIEVEMENTS

Deloitte Australia Data Analytics Job Simulation on Forage (Sep 2025)

[Certificate](#)

- Completed a Deloitte job simulation focusing on data analysis and forensic technology, using Excel for classification and business insights.
- Built a Tableau dashboard and developed skills in data modelling, analysis, and visualization.

CERTIFICATES

- **Machine Learning with Python (with Honors)** | IBM [LINK](#)
- **Full Stack Development** | ARDENT [LINK](#)
- **Responsive Website Development and Design Capstone** | Goldsmiths, University of London [LINK](#)
- **Object-Oriented Data Structures in C++** | University of Illinois at Urbana-Champaign [LINK](#)
- **Writing Skills for Engineering Leaders** | Rice University [LINK](#)