

Ria S.

Software Developer · Data Science

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PROFILE SUMMARY

Software Engineer and Data Science student with demonstrated experience shipping full-stack, cloud-deployed applications. Adept at integrating ML/AI pipelines, computer vision, and AWS infrastructure into production systems. Passionate about building intelligent, scalable solutions — from wardrobe AI to fraud detection with graph neural networks.

EDUCATION

B.Tech — Computer Science & Data Science

2024 – 2028

Manipal University Jaipur · Jaipur

WORK EXPERIENCE

Data Science & Analytics Intern

Oct 2025 – Dec 2025

Future Interns — Remote

- ▶ Conducted end-to-end analysis on e-commerce and social media datasets; delivered insights on customer behaviour trends.

Software Engineering Job Simulation

Jul 2025

J.P. Morgan · Forage

- ▶ Built financial data tooling prototypes; worked with real-world engineering workflows using JPMorgan's Perspective library.

Data Analytics Virtual Experience

Jun 2025

Quantium · Forage

- ▶ Analysed retail transaction data to uncover purchasing trends and communicate strategic recommendations.

Data Analytics Virtual Internship

Jun 2025

Deloitte · Forage

- ▶ Prepared, modelled, and visualised forensic data for business storytelling using Tableau and Excel.

PROJECTS

FlowWrite — AI Text Humanizer

Jun 2026 – Present

[GitHub](#)

- ▶ Built a multi-pass NLP pipeline: spaCy sentence chunking → SBERT semantic merging → local LLM style rewriting (Ollama/llama3.2) → flow smoothing → line-break fragmentation.
- ▶ Designed a Human Likeness Score (HLS) evaluation system scoring rewrites across burstiness (35%), readability (35%), coherence, connector density, and semantic similarity; pipeline generates 3 candidates and returns the highest-scoring output.
- ▶ Validated across 10 benchmark texts in 5 domains (academic, blog, technical, business, healthcare); HLS improvements of +0.17 to +0.36 across samples.

Stack: Python · FastAPI · spaCy · SBERT · Ollama · scikit-learn · AWS S3 + CloudFront

ElligAT — Bitcoin Transaction Fraud Detection

Jan – Feb 2026

[GitHub](#)

- ▶ Designed heterophily-aware GATv2 architecture with temporal edge encoding ($|\Delta\text{timestep}| \rightarrow 16\text{-d}$) and masked feature autoencoder pre-training for illicit transaction detection on the Elliptic dataset (203K nodes, 468K edges).
- ▶ Achieved $F1 = 0.8629 \pm 0.0038$ with MetaEnsemble stacking (ElligAT + XGBoost + LightGBM + RandomForest + MLP), exceeding EvolveGCN published baseline by +14.3% F1 and +4.7% AUC across 5-seed evaluation.
- ▶ Implemented Focal Loss ($\alpha=0.80$, $\gamma=2.5$) with harmonic mean AUC/F1 validation criterion to handle 9.76% fraud class imbalance without F1 collapse; two-phase training with self-supervised pre-training followed by fine-tuning.

Stack: Python · PyTorch · PyTorch Geometric · GATv2Conv · XGBoost · LightGBM · scikit-learn

BookNest+

Mar 2026

Live: d2t9ocwr95ejyv.cloudfront.net · [GitHub](#)

- ▶ Engineered the Dynamic Reading Preference Algorithm (DRPA) — custom recommendation engine analysing reading history, genre preferences, mood trends, obsession tracking, and reading frequency to generate personalised picks.
- ▶ Built in-browser EPUB reader (epub.js), personal book vault with S3-backed PDF/EPUB storage, mood-based system with 11 mood tags, book-to-movie mode via TMDB API, and reading streak analytics.
- ▶ Deployed Node.js/Express TypeScript backend on EC2 + React frontend on S3 + CloudFront; full CI/CD via GitHub Actions.

Stack: TypeScript · React · Node.js · Express · SQLite · AWS (EC2, S3, CloudFront) · Docker · JWT · Google Books API · TMDB API

WYA — What's Your Aesthetic

Jan 2025 – May 2026

Live: dsbml6kwxecah.cloudfront.net · [GitHub](#)

- ▶ Built an end-to-end AI pipeline: background removal (rembg + OpenCV) → garment masking (GrabCut) → zero-shot classification via AWS SageMaker (FashionCLIP) → KMeans colour extraction → pattern detection → rule-based fabric classifier.
- ▶ Delivered 10+ features: Style DNA Quiz, AI Outfit Matcher, Green Score, Aesthetic Aura card, Vacation Packer, real-time Weather Styling, and push notifications (VAPID).
- ▶ Architected full AWS deployment: React + TypeScript frontend on S3 + CloudFront; FastAPI + Docker backend on EC2 (c7i-flex.large); SageMaker serverless endpoint; IAM instance profile auth; automated daily S3 backups.
- ▶ Implemented CI/CD via GitHub Actions; rate-limited AI endpoints with slowapi; 47 pytest tests covering auth, CRUD, and rate limiting.

Stack: Python · FastAPI · React · TypeScript · AWS (EC2, S3, CloudFront, SageMaker) · Docker · OpenCV · scikit-learn · SQLite

SKILLS & TECHNOLOGIES

Languages: Python · TypeScript · JavaScript · Java · C · SQL (MySQL)

Frameworks & Libraries: FastAPI · Express.js · React · Node.js · OpenCV · scikit-learn · PyTorch · Pandas · NumPy

Cloud & DevOps: AWS (EC2, S3, CloudFront, SageMaker, IAM) · Docker · GitHub Actions · CI/CD

Data & ML: Data Analysis · KMeans Clustering · Computer Vision · GNNs · Zero-shot Classification · Regression

Databases: SQLite · MySQL

Tools: Git · Pytest · Vite · Tableau · Excel

CERTIFICATIONS

- ▶ IBM Data Analyst Professional Certificate
- ▶ Google Data Analytics Professional Certificate
- ▶ Google IT Automation with Python
- ▶ Meta Data Analyst with GenAI
- ▶ Programming in Java — NPTEL

LANGUAGES

English (Native) · Hindi (Advanced) · Malayalam (Beginner)