

# KRISHNA SHARMA

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## WORK EXPERIENCE

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- **AI/ML Intern** — Zeronsec, Vadodara (May '24 – July '24)
  - Developed ML-based log parsing solution processing 15 GB of cybersecurity data, achieving 78% accuracy in threat pattern recognition and 85% improvement in data structure standardization.
  - Identified 3 critical workflow bottlenecks causing 60% slower threat detection through comprehensive analysis of existing pipelines.
  - Built automated parsing modules reducing manual preprocessing time by 45%, collaborating with 4 senior security analysts to validate algorithms against real-world scenarios.
  - Documented 12 production enhancement recommendations and presented scalability roadmap for handling enterprise-level log volumes exceeding 50 GB daily.

## PROJECTS

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- **ShipStream - Vercel-like Deployment Platform** — [Link](#)
  - Built microservices deployment platform processing GitHub repos with subdomain routing, achieving 100% free-tier operation using Cloudflare R2, Upstash Redis, and Render.com.
  - Architected 4-service pipeline with Redis queue managing concurrent builds and automated npm workflows for 10+ frameworks (React, Vue, Next.js, Angular).
- **Cross-Source Log Anomaly Detection System** — [Link](#)
  - Engineered anomaly detection pipeline processing 16 diverse log sources (Windows, Linux, Hadoop, HDFS, Spark) using PySpark for distributed computing.
  - Implemented and benchmarked 9 ML models including Isolation Forest, LOF, and BERT-based architectures, achieving superior generalization through domain-adversarial training.
  - Designed leave-one-source-out cross-validation protocol with interpretable pipeline combining Drain template extraction and BERT embeddings, evaluated using PR-AUC and Macro-F1 metrics.
- **Fashion Community - Social Media Platform** — [Link](#)
  - Developed full-stack MERN platform with Google OAuth, JWT authentication, multi-media uploads via Cloudinary, and real-time engagement features.
  - Built scalable REST APIs with MongoDB Atlas architected to handle 10,000+ concurrent users with efficient database indexing and query optimization.
  - Implemented hashtag-based search, trending analysis, infinite scroll, and personalized content feed with responsive React UI using Tailwind CSS.

## EDUCATION

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- **B-Tech CSE** — SRM University AP **CGPA: 7.85**
- **XII (ISC)** — St. Joseph's School (Oct '22 - Aug '26)  
(2022)

## SKILLS

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- **Programming Languages:** Python, JavaScript, Java, C/C++, SQL, R, Bash, PHP
- **Web Development:** React.js, Next.js, Node.js, Express.js, Flask, FastAPI, Spring Boot, REST APIs, JWT/OAuth
- **Databases:** MySQL, MongoDB, PostgreSQL, Database Optimization, Indexing
- **Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers, NLP (BERT), Anomaly Detection
- **Big Data & Analytics:** PySpark, Spark MLlib, Hadoop, Pandas, NumPy, Data Pipeline Development
- **Cloud & DevOps:** AWS (SageMaker, EC2, S3, Certified), Docker, Git/GitHub, MLflow
- **Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly

## CERTIFICATIONS

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- AWS Certified Cloud Practitioner — Amazon Web Services — [Link](#)