

PROFESSIONAL SUMMARY

Highly motivated and detail-oriented Computer Science student with hands-on experience in **full-stack** development, **data analytics**, and process optimization. Skilled in building scalable applications, validating data, supporting change management initiatives, and working across cross-functional teams. Passionate about leveraging technology to drive innovation and improve user experiences.

EDUCATION

University of South Dakota Master of Science, Computer Science	Vermillion, SD Jan 2025-Present
Sri Krishnadevaraya University Bachelor of Technology, Computer Science and Engineering	Anantapur, India Aug 2018-Sept 2021

SKILLS

- Front-End Development: HTML5, CSS3, JavaScript
- Programming Languages: Python, C, C++, Bash
- Back-End Development: Node.js, SQL/NoSQL Databases
- Data Analytics: SQL, (Pandas, NumPy), Data Validation
- Tools: Git, GitHub, Jira, Agile/Scrum methodology
- Change Management: Process Mapping, Workflow Optimization
- Software Development Lifecycle (SDLC)
- Strong Problem-Solving & Team Collaboration Skills

EXPERIENCE

Tech Mahindra Associate Software Engineer	Bangalore, India Dec 2021-Nov 2024
-----------------------------------------------------	---------------------------------------

- Built, deployed, and optimized **Python and Spark-based ETL pipelines** using **Pandas** and **NumPy** to process 12TB of daily telecommunications data, supporting scalable backend services on **AWS** and **GCP** platforms.
- Designed and shipped secure **RESTful APIs in Python and Kubernetes**, seamlessly integrating with frontend applications like Flutter apps and enabling real-time communication across services.
- Integrated **PyTorch-based LLM models** into production environments, enabling generative AI capabilities for dynamic content generation at 99.99% availability across millions of users.
- Architected multi-tenant cloud infrastructure leveraging **AWS S3** and **TensorFlow**, adaptable to **GCP environments**, accelerating model inference speed by **35%** and improving fraud detection accuracy by **28%**.
- Solved ambiguous data challenges through statistical model development, process documentation in Confluence, **agile** workflow tracking via **JIRA**, and proactive change management planning.

PROJECTS

AI Powered Resume Evaluation Tool

- Developed an ATS Resume Expert tool using **Google Generative AI (Gemini)**, **Python**, Streamlit and that evaluates resumes for ATS (Applicant Tracking System) compatibility using generative AI.
- Integrated **Google Gemini API** to analyze resume content, identify skill gaps, and suggest job-specific improvements.
- Built an interactive **Streamlit interface** enabling users to upload resumes and receive real-time feedback.
- Provided ATS compatibility analysis, skill gap identification, and resume optimization recommendations.

Cryptocurrency Price Prediction

- Developed a GUI-based application to predict cryptocurrency prices using 5 years of historical market data.
- Implemented and compared **ML models** (Linear Regression, Random Forest) to forecast price trends with improved accuracy. Integrated **MySQL** for backend data storage and Eclipse IDE for debugging and development.
- Enabled user input for date ranges and crypto selection; displayed predictions in real-time via Tkinter interface.

Adaptive Study Scheduler Using Reinforcement Learning

- Developed a personalized study planning system using **Q-learning** with function approximation to optimize learning paths based on simulated student performance and engagement.
- Designed a dynamic reward function balancing short-term engagement, long-term knowledge retention, and test score improvements.
- Modeled states using student history and learning preferences; actions included recommending topics, review sessions, and practice exercises.