CHANDRA PRAKASH BATHULA

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EDUCATION

Master's in Information Systems   **Saint Louis University**
GPA: 3.93/4.00   *May 2024*

PROFESSIONAL EXPERIENCE

Software Engineer   *St. Louis, MO*
Saint Louis University   *Aug 2024 – Present*
- Designed and delivered real-world software engineering modules to 200+ students, covering SDLC, scalable architecture, UI/UX, and agile development workflows.
- Built and deployed ML-integrated applications including real-time transcription tools, containerized services (Docker), and full ML pipelines using Python, Flask, and REST APIs.
- Engineered and mentored 20+ full-stack capstone projects with industry use cases in healthcare and finance; guided students through Git-based workflows, CI/CD, and testing best practices.

Technical Intern – ITS Workflow Design & iPaaS Integration   *St. Louis, MO*
Saint Louis University   *Mar 2023 – Dec 2023*
- Developed web interfaces for Lost-and-Found, 3D Print tracking, and iPaaS access management with dropdown-based prioritization; improved usability, cut reporting time by 30
- Automated IT workflows and implemented conditional logic for high-priority email alerts, boosting SLA compliance and internal efficiency by 40

Associate Software Engineer   *Hyderabad, India*
Qentelli Solutions Pvt Ltd   *Mar 2021 – Jul 2022*
- Developed and deployed 20+ web and mobile applications using JavaScript, Node.js, HTML/CSS, and integrated ML APIs for real-time analytics, improving performance by 30%.
- Automated repetitive QA tasks and data validation pipelines, reducing manual testing hours by 35% and increasing deployment speed.
- Led end-to-end feature development including requirement analysis, coding, testing, and delivery—saving 6+ hours/month in manual workflows.

PROJECT EXPERIENCE

- Built a **3D PCA Visualization** tool (Python, Word2Vec, Plotly) to project 10K+ word embeddings into 3D space, uncovering bias and reducing semantic complexity by 85%.
- Developed **TubeFlix** (React.js, Tailwind, Firebase, YouTube API), a platform handling 1K+ videos with adaptive playback and smart search, boosting retention by 25% and cutting load times by 30%.
- Engineered the **EliteNotes App** (JavaScript, TF-IDF, Word2Vec, React, Firebase) with 7 ML features—real-time transcription, keyword extraction, semantic tagging—to improve accuracy by 25% and reduce latency by 50%.
- Built an **Apparel Recommender** (TF-IDF, Word2Vec, VGG-CNN) processing 180K+ images and metadata, combining text and visual embeddings to lift recommendation accuracy by 20%.
- Created a **NYC Taxi Demand Predictor** (XGBoost, Random Forest) on 5M+ trips, achieving <12% MAPE through geospatial clustering and feature engineering.
- Designed **Tableau Dashboards** (Tableau, Kaggle) for salary, Netflix, and Amazon sales data—crafting 3 interactive dashboards that increased stakeholder insights by 15%.
- Crafted a **Farmers App Design** (Figma) for climate and crop logistics, integrating real-time weather data and supply-chain tracking to cut manual planning effort by 40%.

TECHNICAL SKILLS

Languages: Python, R, SQL, MATLAB, JavaScript, C++
Data Analysis/Visualization: Tableau, Power BI, Excel, Pandas, NumPy, Matplotlib, Seaborn
ML/AI: scikit-learn, TensorFlow, PyTorch, Keras, NLP, Predictive Modeling
Tools/Platforms: Git, GitLab, VS Code, PyCharm, AWS (EC2, SNS), Jupyter
Frameworks: Flask, Django, OpenCV, React.js, Vue.js, Node.js, Express.js
Other: Agile, Scrum, Jira, API Integration, Data Pipelines

PUBLICATIONS, AWARDS & ACHIEVEMENTS

- First Author: *"Enterprise Application Tool to Discover Midwest Job Trends."*
- Awarded Distinguished Student for Masters Research Project and GPA excellence.