

CHANDRA PRAKASH BATHULA

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EDUCATION

Masters in Computer and Information Sciences, Saint Louis University, GPA – 3.93/4.00

Aug 2022 – May 2024

TECHNICAL SKILLS

Programming Languages	: Python, R, SQL, MATLAB, JavaScript, C++
Data Analysis & Visualization	: Tableau, Power BI, MS Excel (Pivot Tables), Pandas, NumPy, Matplotlib, Seaborn
ML & Data Science	: Scikit-Learn, TensorFlow, PyTorch, Keras, Statistical Analysis, Predictive Modeling, NLP
Tools & Libraries	GitLab, GitHub, Visual Studio Code, PyCharm, Jupyter, AWS, EC2, SNS
Frameworks	: Flask, Django, OpenCV, React.JS, Vue.JS, Node.js, Express.js
Project Management & Other	: Agile, Scrum, Jira, API Integration, Data Pipelines

PROFESSIONAL EXPERIENCE

Adjunct Faculty, Saint Louis University

Aug 2024 - Present

- Teaching Advanced Software Development & Software Development to graduate students, covering Software Development Life Cycle (SDLC), User Interface Design, Software Architecture, and Development.
- Mentored more than 200 students through practical applications of advanced concepts, emphasizing industry-aligned best practices and innovative problem-solving approaches.

Machine Learning Engineer, EliteNotes

June 2023 – July 2024

- Developed a Python-based transcription system with 95% accuracy, integrated with a multilingual translation framework achieving 98% accuracy, and streamlined the processing of 10,000+ files daily using React.js, Tailwind CSS & Node.js.

Research and Design of ITS Workflow Assessment, Saint Louis University

March 2023 – December 2023

- Implemented web interfaces for managing lost-and-found items and streamlined 3D printing ticket creation on campus, increasing efficiency by 40% and improving user engagement by 25%.
- Conducted end-user data analysis for Team Dynamix's iPaaS, implementing automation that reduced workload by 15% and improved response times by 30%, enhancing decision-making by 25%.

Associate Software Engineer, Qentelli Solutions Pvt Ltd

March 2021 – July 2022

- Developed website interfaces with React.js and Vue.js, while implementing ML algorithms with cosine similarity and Manhattan distance methods to achieve 90% customer sentiment prediction accuracy, enhancing user engagement.

PROJECT EXPERIENCE

3D_PCA | Python, Google News Dataset, Plotly, Word2vec

- Built an interactive 3D visualization of Word2Vec embeddings using PCA and Plotly, enabling dynamic exploration of semantic relationships, bias detection, and enhancing NLP education with intuitive, engaging visuals. [Try Here](#)

TubeFlix | JavaScript, React.Js, Tailwind CSS, YouTube API, Google Firebase

- Created TubeFlix, a React-based video streaming platform with Tailwind CSS, featuring advanced video browsing, dynamic search, and intelligent recommendations, improving user engagement by 25% and optimized for seamless playback across all devices. [Try Here](#)

EliteNotes Application | JavaScript, LLM, TF-IDF, Word2Vec, React.js, Firebase Authentication

- Engineered a React web application with seven ML-powered features, including real-time transcription and text summarization, optimizing the daily processing of 10,000+ files and enhancing system efficiency by 50%. [Try Here](#)

Apparel Recommendation System | BoW, TF-IDF, Word2Vec, VGG-CNN, Python

- Architected an apparel recommendation engine, processing 180,000+ images using TF-IDF, Word2Vec, and CNN, boosting product recommendation accuracy by 20% and positioning TF-IDF as the top-performing method. [Try Here](#)

New York Taxi Prediction | Linear Regression, Random Forest, XGBoost, Python

- Trained XGBoost models for taxi demand prediction with <12% MAPE, using data cleaning, clustering, and time-series techniques, and optimized with Linear Regression and Random Forest.

Tableau Dashboards | Built using Tableau, Kaggle Datasets

- Created 3 Tableau dashboards showcasing salary data, Netflix movies/series, and Amazon sales. [Try Here](#)

Farmers APP | Figma Design

- Orchestrated a farmers' app with climate, supply chain, and purchase features, reducing manual efforts by 40%, and serving as a rental, warehousing, and crop sales platform. [Try Here](#)

PUBICATIONS, AWARDS & ACHIEVEMENTS

- First Author for the paper “Developing an Enterprise Application Tool to Discover Midwest Job Trends.”
- Awarded Distinguished Student for Masters research project and with a top GPA in the class.