Chandra Prakash Bathula

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EDUCATION

Saint Louis University **Saint Louis, MO**
Masters in Computer and Information Sciences. (G.P.A 3.93/4.0) *Aug 2022 - May 2024*

SKILLS

Languages: Python, R, JavaScript, MATLAB, SQL
Frameworks: TensorFlow, Pandas, NumPy, TensorFlow, PyTorch, Scikit-Learn, OpenCV, Flask, Django,
Tools and Libraries: GitLab, GitHub, Visual Studio Code, PyCharm, Tableau, AWS, EC2
Web Development: HTML, CSS, React.JS, Vuetify, Hyper CLI, MongoDB, Vue.JS, Node.js, Bootstrap, Jira, Parcel

WORK EXPERIENCE

Elite Notes **Remote, USA**
Machine Learning Engineer *Jun 2023 – Jan 2024*

- Developed a groundbreaking audio transcription system in Python, leveraging IBM's Speech to Text API and **ffmpeg**, resulting in an impressive 95% accuracy rate within 5 seconds for both audio and video files.
- Implemented an innovative translation framework utilizing the transformers library, seamlessly integrating MarianMTModel and MarianTokenizer to facilitate real-time language translation in English, Hindi, and German with a 98% accuracy rate.
- Engineered a cutting-edge data preprocessing pipeline using Pandas and NumPy, streamlining the processing of over 10,000 audio and video files daily to achieve a 50% reduction in processing time.

Saint Louis University **Saint Louis, MO**
Research Associate *Mar 2023 – Dec 2023*

- Conducted in-depth end user research on Team Dynamix's iPaas application, leading to the development and implementation of a solution that decreased workload by 15% through streamlined processes and automation techniques.
- Orchestrated the deployment of an automated email alert system that promptly informed upper management when high-priority access requests exceeded established thresholds, leading to a 30% decrease in response times and a 25% faster decision-making process.

Qentelli Solutions Pvt Ltd **Dallas, Texas**
Associate Software Engineer *Mar 2021 – Jul 2022*

- Collaborated with cross-functional teams to fine-tune recommendation algorithms based on user feedback data, leading to a significant improvement in user engagement metrics.
- Spearheaded the development of website interfaces using React.js and Vue.js; implemented cosine similarity and Manhattan distance methods to predict customer sentiment accuracy by 90%, boosting user engagement and experience significantly.
- Analyzed trends and patterns in data and extracted actionable business insights by communicating results to 5 cross functional stakeholders with 3 Tableau dashboards for monitoring 10+ models in production.

PROJECT EXPERIENCE

LLM Personal Assistant || GPT 3.5 Turbo, LLM-Agent, LangChain

- Conceptualized and executed a state-of-the-art virtual assistant leveraging LLM-based technology, Langchain sequential chaining, and GPT-3.5 Turbo models; obtained an impressive 97% accuracy rating, revolutionizing user engagement and query responsiveness.

Movie Recommendation System | | SVD, KNN, XGBoost.

- Pioneered a sophisticated Movie Recommendation System combining collaborative and content-based filtering methods, delivering exceptional RMSE of 1.075 and MAPE of 35.02 on test data, surpassing industry standards.

Apparel Recommendation System | | BoW, TF-IDF, IDF, Word2Vec, IDF Weighted Word2Vec, VCG-CNN

- Devised an apparel recommendation engine utilizing content-based search and advanced methods including Bag of Words, TF-IDF, Word2Vec, and VCG-CNN, analyzing 180,000+ apparel images from Amazon API.

New York Taxi Prediction | Linear Regression, Random Forest Regressor and XGBoost

- Streamlined ML models for NYC taxi demand prediction with Linear Regression, Random Forest, and XGBoost, achieving <12% MAPE error. Utilized data preprocessing methods like cleaning, clustering, time-binning, and Fourier transform for improved accuracy.

LEADERSHIP EXPERIENCE

- Elected as president for the ECMIX club during bachelor's at J.B.I.E.T.
- Coordinated and led a team of 15 student activists at the Student Activist Center during B.Tech.