**Chandra Prakash Bathula**

Machine Learning Practitioner | Data Scientist | Software Engineer

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**EDUCATION**

**Saint Louis University**   Saint Louis, MO

*Master Of Science in Computer and Information Sciences, (GPA - 3.93/4.0)*  May 2024

**Coursework:** Information Retrieval, Mobile and Web Application Development, Applied Analytics and Methods, Software Development, Visualization Feedback and Dissemination, Advanced Software Development.

**JB Institute of Engineering and Technology**  Hyderabad, India

*Bachelors in Electronics and Computer Engineering* June 2021

**WORK EXPERIENCE**

**Co-Founder & Chief Technical Officer,** *EliteNotes Pvt Ltd*  Jul 2023 – Present

* Led as Technical and Co-Founder at EliteNotes, driving innovation by leveraging **AI** and **Machine Learning** **LLMs (Large Language Models), NLPs** and **Generative AI** models to address intricate industry challenges.
* Orchestrated the integration of advanced ML models within an innovative web platform for accurate **video-to-text conversion**, **large-text summarization,** and **rapid transcription, translation**, and **keyword detection** from audio/video to text with **90% accuracy** in under **10 seconds**, highlighting proficiency in ML models and streamlining content processing.

**ITS Workflow Assessment,** *Saint Louis University*  Oct 2023 – Dec 2024

* Formulated Saint Louis University's 3D print station workflow and developed UI for Lost and Found items section, reducing ticket processing **workload by 30%** and improving item retrieval efficiency by **over 60%**.
* Innovated QR code systems in 2 areas, boosting process efficiency and reducing manual labor by **over 35%**.

**End User Research Design and iPaaS Integration,** *Saint Louis University* Mar 2023 – May 2023

* Optimized access acceptance/denial processes with a user-friendly **user interface** and implemented **automated** email notifications for high-priority requests, enhancing efficiency and collaboration reduced **workload by 15%**.

**Associate Software Developer,** *Qentelli Solutions Pvt Ltd. Hyderabad, India* Jun 2021 – Jul 2022

* Created websites, and web apps using **JavaScript, Node, HTML, CSS, electron.js** integrating machine learning models, **React.js**, and **Vue.js** for enhanced functionality.
* Acted as a liaison for web projects, coordinating **3rd-party** integrations and collaborating with product teams to implement new features across **20+ software systems**.
* Streamlined internal processes by automating tasks, saving employees **6 hours** monthly, and actively participated in the **software development life cycle**, gathering requirements, and building efficient tools.

**Internship,***Qentelli Solutions Pvt Ltd, Hyderabad, India* Mar 2021 – Jun 2021

* Designed and prototyped web applications using **Figma,** incorporating **React.js** and **Vue.js** components to optimize **front-end** functionality and UI and explored **KNN-based algorithms** in the applications.
* Proactively addressed over **250+ front-end** and back-end issues, leveraging expertise in **React.js, Vue.js**, and **back-end** development to ensure smooth operation and user satisfaction.

**RELEVANT PROJECTS**

**Netflix Movie Recommendations | SVD, KNN, XGBoost.**

* Devised a Movie Recommendation System using **collaborative filtering** and **content-based filterin**g techniques, achieving an **RMSE of 1.075** and **MAPE of 35.02** on test data.
* Compared **SVD, KNN**-based algorithms, and **XGBoost** for optimal performance, integrating **XGBoost** with Surprise-based models to enhance accuracy, prioritizing interpretability, and latency requirements.

**Content Based Recommendation System | BoW, TF-IDF, IDF, Word2Vec, IDF Weighted Word2Vec, VCG-CNN**

* Engineered an apparel recommendation engine by content-based search and advanced techniques like **Bag of Words, TF-IDF, Word2Vec,** and **VCG-CNN**, analyzing over **180,000 apparel images** from **Amazon API.**
* Utilized trained **Word2Vec** and **CNN** models to extract **visual features** for accurate recommendations, conducting quantitative analysis to rank **TF-IDF, Average Word2Vec,** and **Bag of Words** for performance.

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

* Developed and trained ML models for New York taxi demand prediction using **Linear Regression, Random Forest Regressor, and XGBoost Regressor,** achieving less than **12% MAPE error.**
* Applied data preprocessing techniques including cleaning, **clustering,** and **segmentation,** alongside **time-binning** and **Fourier transform** for enhanced prediction accuracy.

**TECHNICAL SKILLS**

**Core:** Python, R, SQL, NoSQL Git, Tableau, JavaScript, Matlab, SPSS, SSMS Statistical Analysis, Data Visualization, Power BI, Linux, NLP

**Frameworks & Packages:** Pandas, NumPy, TensorFlow, PyTorch, SciPy Keras, Scikit-learn, OpenCV, Flask. **Machine Learning & AI:** Binary Classification, Regression, Neural Networks, t-SNE, PCA, CNN, Hyperparameter Tuning, Facial Recognition, XGBoost, Random Forest, Ensembles, LLMs, A/B Testing,

**Web Development:** HTML, CSS, React.JS, Vuetify, Hyper CLI, MongoDB, Vue.JS, Node.Js, Bootstrap, Jira.