Devsen Datha Mukkamala

devsendatham@gmail.com | +1(312) 581-7449 | www.linkedin.com/in/devsendatham

PROFESSIONAL SKILLS AND INTERESTS

Python (Pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Keras)

Machine Learning (DT, RF, SVM, GB, SNN, CNN)

Data Visualization (Tableau, Matplotlib, Seaborn, Plotly, Power BI)

Large language Models(LLM's) Fine-tuning, Hugging Face Transformers, GPT architectures, AWS Sagemaker for model deployment

Full-Stack (React.js, Node.js, Express.js, HTML, CSS, JavaScript)

Agile Methodologies and Data PreProcessing

Database Management (MySQL, MongoDB, PostgreSQL)

AWS (EC2, S3, Lambda, RDS, API Gateway, Code Pipeline IAM, CloudFront, S3 Bucket Policies, CORS configuration)

PROFESSIONAL WORK EXPERIENCE

Pixquid **Chicago - IL**
Data Scientist (Python, Excel, JavaScript, HTML, Bubble.io, AWS) **August 2024 – Present**

- Developed and deployed a platform using Bubble, integrating Stripe for payments and AWS S3 for media management. Configured secure access roles and enabled cross-origin media delivery.
- Built a custom upload tool for media, enabling direct uploads to AWS S3, leveraging scalable storage, CloudFront for global delivery, and Lambda for serverless tasks.
- Created custom plugins and designed data analytics strategies, utilizing AWS EC2 for compute and S3 for secure data storage.

Vistex **Chicago - IL**
Data Scientist Intern (Python, Tableau, Excel, Statistical Modeling, Casual Analysis) **September 2023 – December 2023**

- Performed causal analysis using Bayesian structural time series models to assess the impact of price changes on demand and revenue, constructing counterfactual time series for accurate analysis.
- Collaborated with a team to produce Jupyter notebooks and delivered a final presentation, which resulted in 15% improvement in campaign efficiency and influenced pricing decisions across 5+ product categories.
- Increased sales forecasting accuracy by 20% by implementing ARIMA models in Python, and optimizing pricing strategies through the evaluation of promotional interventions.

Illinois Science and Technology Coalition **Chicago - IL**
Data Scientist Intern (Python, Tableau, Excel) **June 2023 – August 2023**

- Streamlined data searches across U.S. educational databases with a custom Python and PowerBI tool, cutting processing times by 30% and boosting productivity by 20% through automation.
- Improved data quality by 15% by enhancing validation and cleaning procedures in federal and local datasets to ensure accuracy and goal alignment.
- Advanced knowledge management by developing a codebook and increasing reader engagement by 10% with contributions to a newsletter article.

Vuedata Technologies **Chennai - IN**
Software Engineer (Android Studio, Java, Kotlin, Tableau, Postman, Jira) **June 2020 – August 2021**

- Launched a Cross-Platform Fitness Application for Android and iOS, collaborating with the UI/UX team to implement innovative designs and architecture.
- Integrated Firebase to enhance app functionality and used Git for version control, adopting Agile methodologies with Jira to manage the project lifecycle and Utilized Postman for API testing and Tableau for generating data n reports from the application database.
- During the initial internship phase (June 2020 - August 2020), assisted senior developers in resolving critical bugs and UI issues, and gained practical experience in Android application development.

EDUCATION

College of Computing and Digital Media, **DePaul University** **Chicago - IL**
Master of Science (MS) - Computer Science **June 2024**
DePaul Data Science Group **|** Computer Science Organization
Relevant Coursework: *Applied Algorithms and data structures, Advanced Machine Learning, Big Data, Data Visualization, Data Analysis and Regression, Programming Machine Learning Applications.*

School of Engineering and Technology (UG), Hindustan University **Chennai - IN**
Bachelor of Technology (BS) - Computer science and engineering **June 2020**
Hindustan Entrepreneurship & innovation center Member – Guided student entrepreneurs in developing business plans and tech solutions.

ACADEMIC PROJECTS

Predictive Modeling of Breast Cancer using Machine Learning **May 2024**

- Developed and optimized machine learning models (Decision Tree, Random Forest, SVM, Gradient Boosting, Sequential Neural Networks, CNN), achieving a recall score of 0.72 for the minority class with CNN.
- Applied advanced preprocessing techniques, including log transformations and feature scaling, with extensive cross-validation and hyperparameter tuning.

LEADERSHIP & ACHIEVEMENTS

- Award in '**Excellent, efficient project design**' category for electricity generation from vibrations project.
- Awarded Graduating presidential scholarship for six consecutive quarters