NAVEEN VENKAT

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EDUCATION

• NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL *2019 - 2023*
BTech in ELECTRICAL AND ELECTRONICS ENGINEERING Manglore

EXPERIENCE

• AB InBev (Budweiser) *Aug 2023 – Present*
Data Scientist Bangalore, India

○ **Procurement Insights Copilot (LLM-Based NL-to-SQL System):** Developed an LLM-powered Copilot using **LangChain**, **RAG**, and advanced prompt engineering (*CoT, ReAct, Contextual Augmentation*) to convert natural language procurement questions into executable SQL queries on structured SAP datasets.

○ Reduced query-to-insight turnaround time by **90%**, saving **40+ hours/month** per user and significantly boosting self-serve analytics adoption.

○ **Personalized Offers in Delivery APP:** Designed ML models using **XGBoost** and **Genetic Algorithms** to assign optimal SKU-level challenges for **30K+ stores**, enhancing campaign relevance and engagement.

○ Achieved **91% incremental conversion**, **$2.4M revenue uplift**, and **4% improvement** in store activation, validated via a **Synthetic Control Framework**.

○ **Portfolio Optimization:** Delivered store-specific SKU portfolios for **20+ retailers** across Brazil and Argentina using **K-Means Clustering** and **Genetic Algorithm Optimization**.

○ Increased average category revenue by **6%** through SKU rationalization and hyper-localized assortment strategies.

○ **Space Planning Engine:** Engineered planogram generation algorithms using **Govers Distance**, **Non-Linear Integer Programming**, and **Genetic Algorithms** to optimize shelf layout and inventory KPIs.

○ Improved **Days of Supply**, reduced stockouts, and maximized shelf utilization for key retail partners.

○ **Global Hackathon Winner – Reverse Auction Optimization:** Secured **1st place out of 150+ teams** by designing an auction engine using **AutoGluon**, **CatBoost Regressor**, and **Genetic Algorithms**, deployed via a **Streamlit** interface for real-time simulations.

PERSONAL PROJECTS

• Lichess Bot – Real-Time Chess Automation *Apr 2025*
Tools: [Python, ADB, OpenCV, Stockfish API] [O]

○ Automated chess gameplay by capturing device screen via **ADB** and extracting board state using **OpenCV**.

○ Used **Stockfish API** to compute best moves and simulate actions with tap commands.

• Face Generaton from Sketch *Nov 2021 - Mar 2022*
Tools: [Python, TensorFlow, GANs, OpenCV] [O]

○ Developed an image generation system using Generative Adversarial Networks (GAN) to transform face sketches into realistic images

○ Enhanced the GAN with a 50-layer Generator and a 9-layer Adversary, achieving losses of 2.052 and 1.139 respectively.

SKILLS

• Programming Languages: Python , C++ , C

• Competitive Programming : Specialist at Codeforces (Max Rating - 1442) | Level 5 at Codechef (Max Rating - 2014)

• Awards : Employee of the month (June 24) | Rookie of the Quarter (July 24), Hackathon Winner