AVANTI CHANDRATRE

West Lafayette | 765-767-3529 | chand231@purdue.edu | www.linkedin.com/in/avantic | https://github.com/AvantiChandratre

PROFILE

- MS in Business Analytics student skilled in data driven decision making, leveraging machine learning & visualization for marketing & business strategy.
- **Skills:** Probability theory | Hypothesis Testing | A/B testing | Time Series Analysis | Chi-Square
- **Tools:** Microsoft Power BI | Tableau | VBA Macros Excel | Python | R | SQL | MATLAB | C++ | Scikit-learn | Keras | Pandas | NumPy | PySpark | SAS Miner Seaborn | Matplotlib | SciPy | JIRA
- **Certifications:** Alteryx Designer Core | Microsoft certified Azure AI Fundamentals | SQL intermediate certification (Hacker Rank) | Fractal certified Data Analyst

EDUCATION

Purdue University, Daniels School of Business — **West Lafayette, IN**
Master of Science in Business Analytics and Information Management — **August 2025**

National Institute of Technology Warangal — **Warangal, Telangana, India**
Bachelors in mechanical engineering — **May 2022**

PROFESSIONAL EXPERIENCE

Prediction Guard — **West Lafayette, IN**
Data Science Intern (Remote) — **Dec 2024 - Apr 2025**

- Collaborated with industry professionals to benchmark LLM risks, including prompt injection, sensitivity, toxicity and PII leakage.
- Designed and tested mitigation strategies to enhance model safety and enterprise reliability.
- Led data curation and evaluation workflows to strengthen trust in open-source LLM applications.

Fractal Analytics — **Mumbai, Maharashtra**
Imagineer/Associate Business Analyst — **July 2022 - July 2024**

- Led a team of 4 Power BI specialists to deliver 5 Revenue Growth Management dashboards, securing a project extension and generating $50K in added revenue.
- Built sales tracking reports with KPIs across 8 international markets for a Fortune 500 client, boosting revenue by 19%.
- Developed a Self-Serve data model and automated EDA workflows, streamlining data accessibility and saving 6 hours weekly.
- Optimized 10+ Power BI dashboards and reports through DAX, Power Query, and MySQL tuning - reducing load times by 30% and response times from 5 mins to 10 secs.
- Trained and managed 3 team members in an Agile environment, ensuring seamless knowledge transfer and delivery continuity.

Data Analyst Intern (Remote) — **May 2021 - July 2021**

- Enhanced AI-driven models for the FAIGHTERS project, boosting neural networks to improve predictions of COVID-19 spread.
- Collaborated with CC Hellenic to enhance code quality, implement unit testing, and refining software development practices.

ACADEMIC PROJECTS

HR Email Response System (Ongoing)

- Designing an **AI-powered HR email response system** with LangChain and OpenAI's LLMs to automate routine HR queries.
- Built an intent classification pipeline and integrated context-aware responses to boost efficiency in internal HR operations.
- Collaborating cross-functionally to refine system prompts, feedback loops, and performance evaluation metrics.

Data 4 Good Competition (*4th place amongst 111 teams competing nationwide*)

- Headed the development of an AI solution to optimize TAPS' "Survivor Journey Map," helping bereaved military families access timely support by predicting grief stages from survey responses.
- Applied Azure Language Service and Hugging Face LLaMA for text classification; achieved 90.6 F1 score using Optuna.

Airbnb Host Retention Analysis *(1st Place, In-Class Competition)*

- Developed predictive models for customer churn, identifying key factors influencing **Airbnb host retention** & engagement leveraging Random Forest and Gradient Boosted Trees.
- Conducted **cost benefit analysis** to determine profitable intervention strategies, refining resource allocation for high value hosts.

Bankruptcy Prediction Project

- Developed predictive models using Gradient Boosting and Neural Networks in SAS Miner to identify companies at financial risk.

LEADERSHIP ACTIVITIES, AFFILIATIONS, HONORS

- **Spot Award** awarded by Fractal Analytics for attention to detail and swift problem-solving capabilities.
- Clinched 1st place in singles for 2 years and 2nd in doubles in intramural tournaments; represented in inter-NIT competitions.
- Volunteered in **CSR initiatives** at Fractal, raising awareness on plastic pollution through tree plantation and beach clean-up drives.