ATHARVA VISHAL KAPADNIS

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Education

Master of Science in Data Science — **Aug. 2023 - May 2025**
The University of Texas at Arlington, TX GPA (3.8/4.0)

Bachelor of Engineering in Computer Science and Engineering — **Aug. 2019 - Jun 2023**
New Horizon College of Engineering, India GPA (8.6/10.0)

Experience

Graduate Teaching Assistant — **Jan 2025 – Present**
The University of Texas at Arlington, Arlington

- Provided individualized tutoring and academic support to students in introductory programming courses, enhancing their understanding of core coding concepts.
- Assisted in debugging, problem solving, and code optimization, helping students develop strong programming foundations in Python, Java, and other relevant languages.

Resident Assistant — **Feb 2024 – Nov 2024**
Campus Living Villages, Arlington

- Analyzed market trends using Power BI, improving marketing strategies, and boosting occupancy by **15%**.
- Streamlined leasing operations, cutting processing time by **30%** and enhancing customer retention.
- Led resident engagement, resolving **80%** of inquiries within 24 hours and increasing satisfaction by **25%**.

Projects

Stock Price Forecasting Using Machine Learning & Deep Learning / *Python, TensorFlow, Scikit-Learn, Statsmodels*

- Developed predictive models for NVIDIA, Microsoft and Apple stock prices using machine learning and deep learning methodologies, achieving up to **92% R^2**.
- Improved forecasting accuracy by **15%** with ARIMA and hybrid models (ARIMA-LSTM, XGBoost-LSTM) while reducing model error by **12%** through feature engineering.
- Automated data preprocessing and model training, cutting processing time by **40%** and enhancing reproducibility.

Customer Segmentation and Revenue Prediction / *Python, Scikit-Learn, Pandas*

- Analyzed product sales trends using statistical and visualization techniques to provide actionable business insights.
- Developed machine learning models for revenue prediction, achieving an **accuracy of 85%** on test data.
- Automated data preprocessing and feature engineering, reducing data preparation time.

AR: A Visual Aid for Classrooms / *Unity3D, ARCore, Numpy*

- Developed an augmented reality application to aid the teaching process in classrooms, **enhancing student engagement by 15%.**
- Conducted an extensive literature survey and authored a research paper on the system, published in a renowned conference.

Technical Skills

Programming & Data Handling: Python, R, SQL, NoSQL
Machine Learning and AI: Deep Learning, Time Series Forecasting, AutoML, Generative AI
Experimentation & Decision Science: A/B Testing, Bayesian Optimization, Casual Inference, Statistical Modelling
Big Data & Scalable Systems: Hadoop, Cloud Computing, ETL Pipelines, Distributed Computing
MLOps & DevOps: CI/CD, Model Deployment, Git, Docker
Visualization: Tableau, Power BI, Matplotlib, Seaborn

Publications

- Published "AR: A Visual Aid for Classrooms" at the 43rd World Conference on Applied Science, Engineering, and Technology.
- Published a research paper on AR technologies in the ACT International Conference, 2023.
- Published "The Entirety of the Voice Assistant" in the International Journal of Scientific Research in Science, Engineering, and Technology (2022).

Certifications

Data Scientist | Data Camp

Data Analyst | Data Camp

Big Data Analytics with R | EtherGlobal Service Pvt. Ltd