SHREEDEEP S NAIR

Bloomington, USA 47408 |shrnair@iu.edu | +1 (812)-679 3957 | www.linkedin.com/in/shreedep-nair

EDUCATION

Indiana University, *Bloomington, USA* **August 2023 – Present**

Master of Science in Data Science(CGPA:3.527/4)

Courses: Introduction to Statistics (STAT-S 520), Applied Machine Learning (CSCI-P 556), Data Visualization(DSCI-D 590), Advanced Database Technologies(CSCI-P 561).

WORK EXPERIENCE

Rebisken Group, *Bloomington, USA* **August 2024 - Present**

Data Science Intern

- *Reviewed and analyzed **10+ OpenCLA case studies**, identifying key patterns and delivering actionable insights that contributed to strategic decision-making.*
- *Created **5+ interactive knowledge graphs** using Python, HTML, and JavaScript, enhancing data visualization and understanding for stakeholders.*
- *Conducted in-depth analyses, producing detailed reports that streamlined project workflows and informed business strategies.*

Indiana University Bloomington, *Bloomington, USA* **May 2024 – July 2024**

Independent Study:GeoAI project

- Identified data points that could be classified as superpixels from nearly a million data points for 12 different experiments.
- Performed active learning by labeling superpixels as flood or dry for 12 different experiments and retrained the data points based on these labels to obtain superior prediction metrics..
- Achieved a 30% increase in prediction accuracy after performing active learning with the machine.

PROJECTS or RESEARCH

Player Performance Prediction:

- Conducted in-depth exploratory data analysis (EDA) using 8 different datasets to evaluate player performance across 4 positions, resulting in the identification of key metrics for forecasting player performance..
- Implemented innovative features as metrics in forecasting player performance, leading to a more accurate prediction model and increased accuracy by over 20%.
- Utilized regression-based Machine Learning and Neural Network models to predict player ratings, achieving an accuracy rate of over 85% for the best performing model in each position.

Bitcoin Price Predictor for Long, Short and Medium Time Frame:

- Utilized Python to develop and implement machine learning models for forecasting Bitcoin prices across different timeframes, achieving an average accuracy rate of 75% across all intervals.
- Conducted thorough analysis of model results to identify key trends and patterns in Bitcoin price movements, leading to the implementation of strategic adjustments that improved model accuracy by 10%.
- Collaborated with cross-functional teams to integrate machine learning algorithms, streamlining accurate Bitcoin price forecasting processes.

Active Learning on LITS Dataset :

- Implemented nnUNet and 3D-UNet architectures for automated segmentation of liver and tumor regions on the LITS dataset.
- Developed active learning pipeline to optimize data labeling efficiency, significantly reducing manual annotation effort for CT scan images.
- Visualized 3D medical imaging data and integrated feedback loops to improve model performance with iterative training on uncertain samples.

PUBLICATIONS:

- "Bitcoin Price Prediction for Long, Short and Medium Time Frame**",International Research Journal of Engineering and Technology (IRJET) ",Volume: 09 Issue: 03 | Mar 2022**

SKILLS

- **Programming Languages**: Python, R, PostgreSQL, HTML, CSS and Django
- **Technical Skills**: Natural Language Processing,Operating Systems, MongoDB, Tableau, AWS, Git.
- **Statistical Analysis**: Statistical modeling, Regression analysis, Time series analysis and Financial Analysis.