Laxmikant Maheshji Kabra

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EDUCATION

Indiana University, Bloomington, IN, United States — Aug 2022 – May 2024
Master of Science in Data Science — GPA: 3.6
Relevant Coursework: Applied Algorithms, Applied Machine Learning, Big Data, statistics, Graph Analytics

Shri Ramdeobaba College of Engineering and Management, India — Aug 2018 – May 2022
Bachelor of Engineering in Information Technology — GPA: 8.3
Relevant Coursework: Data Warehousing and Business Intelligence, AI, Information Retrieval

WORK EXPERIENCE

Coditas Solutions LLP, Pune, India — Apr 2021- Jul 2021
Software Development Intern | Angular, Firebase

- Spearheaded the development of a robust web application module, showcasing proficiency in Angular, which enabled seamless user interactions and experiences.
- Orchestrated the implementation of comprehensive CRUD (Create, Read, Update, Delete) operations for a blog application, resulting in a 40% increase in content creation and user engagement.
- Optimized communication between front-end and Firebase backend with RESTful API, reducing latency by 25%. Managed user data using NoSQL document database, resulting in a 15% faster data retrieval.

PROJECTS

Math Exam Processing with Computer Vision — Jan 2023 – Apr 2023

- Produced a robust pipeline to extract and pre-process handwritten math exam answer sheet images of 4th and 5th grades, comprised of 3,300 labeled images and 14,000 unlabeled images as data.
- Encompassed coordinate mapping to 9 sections to generate features and segment the data, followed by image recognition techniques to label the data.
- Ensured efficient processing of the data, labeled image data, and combined more than 50 image areas.

Twitch Social Network Analysis — Jan 2023 – Apr 2023

- Devised a structural analysis of social network data of 170,000 nodes from Twitch user to classify and cluster platform users into groups and study the characteristics of data.
- Aided link prediction between users ahead, thus achieved recommendations for users.
- Incorporated the DeepWalk and Node2Vec algorithms to obtain graph embedding of 7 million edges, to train Graphical Neural Networks thus, predicting user lifetime and affiliate status.

Customer Segmentation — Jan 2022 – May 2022

- Engineered customer retail data to predict customer value based on historical transaction data for 8 years.
- Programmed IQR to remove skewed data for 5% on extremes. Deduction of clustering tendency using Hopkins statistic followed by Silhouette analysis that determined 4 clusters.
- Transformed Recency-Frequency-Monetary (RFM) values for classification purposes and implemented K-NN model with 78 percent accuracy, to determine customer lifetime-value (LTV) for 6, 12, 24 months.

Breast Cancer Risk Analysis — Jan 2021 – Nov 2021

- Analysed patient breast cancer data to predict future risk, achieving an 85% accuracy Artificial Neural Network model, among logistic regression, K-NN, SVM, decision trees, and random forests.
- Employed the Django REST API framework to facilitate model link with user interface.
- Procured participation in ICICA'21 Conference, Nov 2021 and published in special edition of IJNJC journal.

TECHNICAL SKILLS

- Python, R, SQL, Java, C, Scikit-learn, PyTorch, Pillow, Pytesseract, OpenCV, Keras, Statistics, Machine Learning, Data Mining, Data Visualization, Artificial Intelligence (AI), NetworkX.
- PostgreSQL, NoSQL, Google Cloud Platform, Big Data, Data pipeline, Data Modelling, Data Manipulation, Virtualisation tools, Technical Presentations.