RIDDHI MAHESH DANGE

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EDUCATION

Stevens Institute of Technology. **Expected: May 2024**
Master of Science in Computer Science CGPA 3.67/4
Relevant Coursework: Fundamentals of Computing, Mathematical foundations of Machine Learning, Knowledge Discovery and Data Mining, Agile Methods for Software Development, Database Management Systems, Algorithms

MCT's Rajiv Gandhi Institute of Technology, University of Mumbai **August 2018 - June 2022**
Bachelor of Engineering in Information Technology CGPA: 8.85/10
Relevant Coursework: Data Structures & Analysis, Automata Theory, Database Management systems, Software Engineering & Project Management, Advanced Database Management Techniques, Data Mining & Business Intelligence, Big Data Analytics

PROFESSIONAL EXPERIENCE

Myrestica Technologies Pvt. Ltd., Vadodara, India **June 2021 – September 2021**
Data Scientist Intern

- Employed Python programming and RFM K-means clustering analysis to accurately segment customer base into distinct groups, resulting in more targeted marketing & improved sales by 20%.
- Developed predictive models to identify products associated with each customer segment, strategically managing demand & supply of the product for increased efficiency.
- Conducted exploratory data analysis on customers' behaviors to improve accuracy of predictions and boost revenue by 10%.

SELECTED PROJECTS

Predicting Price of California Wine **October 2022 – December 2022**

- Analyzed and preprocessed wine dataset, reducing null values and identifying key indicators for price fluctuation across 3 price ranges.
- Utilized min-max scaler to normalize data for 12 classification algorithms, achieving 88% accuracy with KNN and GridSearchCV.
- Identified trends to set benchmarks and measure outcomes against past fluctuations, predicting price increase/decrease with 95% confidence interval.

College Applications **October 2022 – December 2022**

- Analyzed 400-row dataset for college admission success, preprocessing data to remove nonlinear dependencies and reduce data size by 90%.
- Used SVR model with dimensional reduction to tighten decision boundaries by 50% and decrease error rate by 20%.
- Linear regression performed best without PCA reduction, while SVR benefitted from dimensional reduction for tightening decision boundaries with additional features.

Predicting Agricultural Produce using Machine Learning Techniques **January 2021-May 2022**

- Developed predictive models to forecast agricultural produce, incorporating Google Maps API & Random Forest regression algorithm with 90% accuracy.
- Utilized python programming and ML techniques on a dataset of 10K records to accurately predict crop yield in the area by 15%.
- Evaluated soil parameters and recommended most profitable crop using random forest classifier with an 80% success rate.

College Enquiry Chatbot **August 2021 – November 2021**

- Applied linear regressions to process user queries and extract relevant information for the College Enquiry Chatbot, boosting accuracy by 40%.
- Deployed DialogFlowJS & NodeJS as backend with API service key, achieving a web application capable of handling 100+ concurrent users.
- Optimized intelligent system performance by 70% through leveraging machine learning algorithms to accurately predict user queries.

TECHNICAL SKILLS

- **Programming Languages:** R, Python, Java, C, C++, and SQL
- **Web Technologies**: HTML, CSS, JavaScript, ReactJS
- **Databases:** MySQL, MS SQL Server, Oracle
- **Cloud:** GCP
- **Libraries:** Keras, Tensorflow, Flask, NumPy, Pandas, Matplotlib, Seaborn, CNN, OpenCV
- **Other Tools & Technologies:** Git, MS Excel, MS Project, PyCharm, Eclipse, Visual Studio Code

CERTIFICATIONS

- Google Cloud Ready Facilitator Program, Google Cloud, QwikLabs **April 2021**
- Python for Everybody, University of Michigan, Coursera **February 2021**
- Excel Skills for Business: Essentials, MACQUARIE University, Coursera **February 2021**

LEADERSHIP

Association of Budding Information Technocrats (ABIT) **September 2021 – August 2022**
President

- Organized and directed over 10 seminars, webinars, and workshops with over 500 participants to educate on Python, Machine Learning, Data Science, Stress Management, Web Development, Stock Market Trading, Internship Prospects, Portfolio Building, and WordPress.
- Managed a team of over 100 members in creating content for the workshops and webinars: increased engagement by 15% from previous year.
- Promoted ABIT's mission through online campaigns resulting in 20+ new active members joining the committee.

PUBLICATIONS

- Published a research paper titled "Predicting Agricultural Produce using Machine Learning Techniques" in International Journal of Innovative Research in Technology, May 12, 2022.