Sumedh Wairagade

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EXPERIENCE

Data Analyst Intern
Basey Insurance   **Dec 2023-Present**, Arlington TX

- Operated on BI tools like Looker Studio and Tableau to create 4+ data-driven decision making templates, integrating data from multiple sources with Supermetrics and PowerMetrics, resulting in dashboards providing critical business insights.
- Led 20% increase in revenue through effective dashboard use by providing improvements in marketing campaign performance. Optimized tool selection process for company operations using A/B testing and product research methodologies.
- Developed a robust pricing model using R, SQL, and advanced Excel, to enhance pricing accuracy by 25% over six months, contributing to a 10% increase in profitability margins and a more competitive pricing strategy.

Integrated Operations Engineer
AlphaXM   **Mar 2020-Dec 2021**, Nagpur MH

- Collaborated with cross-functional teams to leverage market research and performance monitoring insights, resulting in a 20% increase in marketing campaign effectiveness and also streamlined project operations.
- Designed and implemented innovative solutions to automate marketing campaign operations and integrating platforms, leading to a 10% reduction in time spent on manual tasks like Data Management and Analysis Modelling Techniques.
- Analyzed and interpreted data to deliver actionable business insights, contributing in improvement of overall operational efficiency and 25% boost in combined team productivity. Also Led the team in strategizing and designing various components of campaigns for clients.

ML/AI Intern
ExpertsHub   **Jul 2018-Jul 2018**, Pune MH

- Implemented predictive modeling application, 5 classed classification model to analyze sentiment of tweets or reviews. Vectorized words and associated them with values, identified keywords and evaluated their value.
- Developed a probabilistic model using Binomial probability distribution to enhance prediction accuracy, achieving 5% increase in accuracy, using Python and TensorFlow. Designed prescriptive analytics model, to optimize decision-making process and enhance bias to further improve model accuracy.
- Conducted hypothesis testing to validate data-driven models, resulting in a 11% improvement in model accuracy over a month internship, leveraging tools such as Jupyter Notebooks, SciPy and PyTorch.

PROJECTS

Stock Price Prediction
- Selected and designed a Neural Network with LSTM layers, Dropout, and Dense layers, achieving 86% accuracy in stock price forecasting.
- Collected stock data using the Alphavantage APIs, pre-processed and scaled data to normalize it, ensuring consistency and improving reliability of model.
- Built and evaluated multiple prediction models based on different time frames (weekly, monthly, quarterly, yearly), enabling profitable buy/sell decisions.

Object Classification
- Implemented an object classification system using Neural Networks, VGG-19 architecture, successfully adapting it to classify objects in a diverse dataset of over 80,000 images.
- Directed a group to utilize Transfer Learning techniques to effectively compare and enhance classification performance by fine-tuning hyperparameters.
- Achieved 20% reduction in processing time and model accuracy rate of 89%.

Generation and Optimization of Time-Table Using Genetic Algorithm
- Modeled AI application using agile methodologies to generate an optimized course timetable for the university, coordinating with infrastructure and staff to schedule weekly 200+ classes, 50+ teachers, and 40+ subjects.
- Implemented and fine-tuned a Genetic Algorithm, improving scheduling efficiency by 13% and reducing computation time by 40%.
- Tested 3 additional AI algorithms, including Constraint Satisfaction Problem and Heuristic Approach, also compared performance and ensured the highest accuracy in timetable generation.

TECHNICAL SKILLS

- Shell scripting, Javascript, Python, R, MySQL, PostgreSQL, MongoDB, NoSQL, BigQuery, ETL Pipelining, CI/CD, PowerBI, Atlan.
- Pandas, TensorFlow, Matplotlib, PyTorch, NumPy, Matplotlib, Sci-kit learn, Distributed Systems, Advanced Excel, GCP, Data Flow, Google Analytics, Airflow, A/B Testing, PL Analysis, Monte Carlo, Dataproc, Azure Data Factory, Azure Resource Manager, AWS Fleet Manager(EC2), Jenkins, Alation.

EDUCATION

Master of Science (Computer Science)
The University of Texas at Arlington - 3.5/4.0
- Course: Data Mining, Machine Learning, Game Theory & Data Analytics, Artificial Intelligence, Neural Networks, Parallel Processing.

Bachelor of Engineering (Information Technology)
Savitribai Phule Pune University - 7.23/10
- Course: Business Analytics & Intelligence, Social Media Analytics, Information Storage & Retrieval, Data Science & Big Data Analytics.

CERTIFICATIONS

- **Data-driven Decision Making** - PWC, Coursera
- **Business Analytics** - Wharton University of Pennsylvania
- **Introduction to Artificial Intelligence (AI)** - IBM, Coursera
- **Introduction to Programming using JS** - Microsoft Tech. Associate