Sumedh Wairagade

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EXPERIENCE

Data Analyst
Intello Group, Inc.   **Jan 2025-Present**, **Arlington, TX, USA**

- Automated CI/CD pipelines and optimized cloud-based deployments on GCP, reducing deployment time by 40%. Enhanced system efficiency for data-intensive dashboards, reports, and predictive models, streamlining workflows and enabling faster decision-making across teams and projects.
- Implemented a monitoring and alerting system using Datadog, ensuring high availability and performance of critical infrastructure. Proactively identified issues in real-time environments, reducing downtime by 25% and maintaining system stability.
- Designed MLOps pipelines with Kubeflow, MLflow, Flyte, and Airflow, streamlining model training, automating data workflows, and ensuring seamless integration of production-grade machine learning models. Improved scalability by 35%, enabling faster deployments and better model management.

Data Analyst Intern
Basey Insurance   **Dec 2023-Jan 2025**, **Arlington, TX, USA**

- Leveraged BI tools, Looker Studio and Tableau to create 4+ decision making templates based on data from social platforms, combining data from multiple sources with Supermetrics and PowerMetrics APIs, resulting in dashboards on critical business insights.
- Incorporated 20% increase in revenue through effective dashboards, providing improvements in campaign performance. Optimized tool selection process from the pool of 6 tools using A/B testing and product research methodologies, following smooth organization operations.
- Formulated a robust pricing model using R, SQL, and advanced Excel, to enhance pricing accuracy, contributing to a 10% enhancement in profitability margins and a more competitive pricing strategy.

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

- Delegated cross-functional teams to leverage market research and performance monitoring statistics, producing 20% growth in marketing campaign effectiveness and also streamlined project workflow.
- Implemented and navigated innovative solutions to automate marketing campaign operations and integrating platforms, leading to a 10% decrease in time spent on manual tasks like Data Management and Analysis Modelling Techniques.
- Analyzed and interpreted data to deliver actionable business insights, contributing to improve overall operational efficiency and 25% boost in team productivity. Also led to strategize and design various marketing components, resulting in 2.4 times outreach traffic.

PROJECTS

Stock Price Prediction
- Designed and selected a Neural Network with LSTM layers, Dropout and Dense layers, achieving 86% accuracy in stock price forecasting.
- Acquired stock data using the Alphavantage APIs, pre-processed and scaled data to normalize it in range 0-1, improving consistency and reliability of model.
- Built and evaluated 4 prediction models based on different time frames (weekly, monthly, quarterly, yearly), enabling profitable long-term buy/sell decisions.

Object Classification
- Established an object classification system using VGG-19 architecture model, adaptive to classify a dataset of 110,000 images having 11 categories with 65%-15%-20% train, validate, and test split respectively. Ensured Softmax as activation function and Adam as model optimizer elevating precision by 5%.
- Directed Transfer Learning techniques to compare and enhance classification performance by fine-tuning hyperparameters providing 2% precision boost.
- Achieved 20% reduction in processing time and model accuracy rate of 89% to successfully classify all the objects in the image.

Generation and Optimization of Time-Table Using Genetic Algorithm
- Modeled AI application using agile methodology generating an optimized course timetable for University, coordinating with infrastructure and staff to schedule weekly 200+ classes, 50+ teachers, and 40+ subjects, added Soft and Hard Constraints in solution for higher accuracy.
- Executed and fine-tuned 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 performances 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, Amazon Athena, Kubernetes, KubeFlow, MLFlow, Docker, Flask, Tensorflow Serving, Infrastructure-as-Code, AWS Quicksight, IBM Cognos Analytics, Root-Cause Analysis.
- Pandas, TensorFlow, PyTorch, NumPy, Matplotlib, Sci-kit learn, Distributed Systems, Advanced Excel, Google Cloud Engine, Data Flow, Google Analytics 4, Airflow, A/B Testing, PL Analysis, Monte Carlo, Dataproc, AWS Identity and Access Management, EC2, Glue, Redshift, Amazon S3.

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