Pavan Sai Vankalapati Data Analyst

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Summary

Results-driven Data Analyst with 4+ years of expertise in data analysis, visualization, and advanced analytics. Proficient in Python, SQL, Tableau, Power BI, and cloud platforms like AWS and Azure. Skilled in techniques to extract actionable insights from complex datasets. Adept at data cleansing and trend analysis, creating dynamic visualizations that drive strategic decision-making and optimize business performance.

Technical Skills

- **Programming Languages**: Python, SQL, NoSQL, HTML, CSS, R
- **Frameworks & Tools**: NumPy, Pandas, Matplotlib, GitHub, Docker, CI/CD, Statistics, Agile, Hadoop, Hive, PySpark, Snowflake, Seaborn, Sci-kit Learn, Jira, KPI Analysis, Automation Power Query
- **Databases**: MySQL, MS-SQL, Redshift, Big Query, PostgreSQL, MongoDB, SparkSQL
- **Data Analysis / Tools**: Power BI, Tableau, Data Bricks, MS Excel, Google Analytics, Data (Modeling, Mapping, Mining, Extraction, Transformation), Salesforce, Zendesk, Confluence, Postman, SAP ERP

Professional Experience

Data Analyst, Goldman Sachs   05/2023 – Present | Remote, USA

- Collected 10,000 financial news articles and social media posts for the Financial Sentiment Analysis using web scraping tools and APIs, storing raw data in AWS S3 and automated the extraction process with AWS Lambda for timely updates.
- Implemented ETL processes with AWS Glue to clean and transform text data, including removing 95% of noise and normalizing content using NLTK and SpaCy for text preprocessing, preparing data for sentiment analysis.
- Applied sentiment analysis using VADER to classify text into positive, negative, or neutral categories achieving 85% accuracy in sentiment classification, tailored specifically for financial content to improve market prediction accuracy.
- Engineered features from sentiment scores combined them with historical stock prices, and trading volumes using SQL to query and aggregate data from multiple sources, creating new metrics to assess sentiment impact on market trends.
- Developed and evaluated predictive models using Linear Regression and Decision Trees to forecast stock prices based on sentiment data gaining 75% prediction accuracy using Scikit-learn, improving investment decision-making.
- Designed interactive dashboards in Power BI to display sentiment trends and predictions, generating actionable insights and detailed reports for stakeholders, leading to a 20% improvement in strategic decisions.

Associate Computer Vision Engineer, Cognizant Mobility   06/2021 – 04/2022 | München, Germany

- Conducted comprehensive data acquisition using various camera parameters to build robust datasets, which improved training data quality by 30% and enabled effective application of models like YOLO for object detection and segmentation.
- Annotated and preprocessed images for segmentation tasks with tools such as LabelMe and VGG Image Annotator (VIA), creating high-quality labeled datasets that improved U-Net model accuracy by 35% for precise segmentation.
- Developed and implemented image comparison algorithms, automating optical testing of Head-up Displays using SSIM (Structural Similarity Index), which reduced testing time by 40% and enhanced defect detection accuracy by 25%.
- Designed and trained neural network models using Python and frameworks like TensorFlow and PyTorch, and architectures like DeepLabV3+ for segmentation tasks, gaining 50% drop in training and 30% boost in model performance.
- Optimized and evaluated metrics from image comparison results using precision and recall metrics, refining visual inspection processes and increasing defect detection accuracy by 20% for more reliable quality control.
- Enhanced segmentation models with advanced techniques and models such as Mask R-CNN, achieving a 35% increase in segmentation precision and ensuring efficient and accurate visual data processing for diverse applications.

Data Analyst, Sphyzee Analytics   06/2018 – 04/2021 | Bangalore, India

- Utilized advanced SQL techniques and implemented indexing and query-tuning strategies on Azure SQL Database, resulting in a 30% reduction in query execution time and a 40% improvement in data retrieval efficiency.
- Captured and documented over 50 evolving business process requirements, conducting impact assessments and supported testing phases using Azure DevOps for streamlined project management, resulting in a 25% reduction in errors and improved alignment with business goals.
- Defined and implemented 15 KPIs and metrics tailored to business objectives, leveraging Azure Data Factory for data integration and transformation, providing guidance to stakeholders, resulting in a 20% improvement in the accuracy of business forecasts and performance evaluations.
- Employed predictive analytics models, such as regression analysis and time series forecasting, using Azure Machine Learning, gaining a 35% increase in the accuracy of sales forecasts and strategic initiatives.
- Collaborated with IT, marketing, and finance teams to integrate data insights into business strategies, utilizing Azure Synapse Analytics to unify data and analytics processes, simplifying over 30 cross-functional meetings, improving project alignment and execution, and reducing project delivery times by 15%.
- Delivered over 40 data presentations and reports tailored to diverse technical and non-technical audiences using Azure Power BI Embedded, enhancing stakeholder understanding and engagement, and leading to a 25% increase in data-driven decision-making across departments.
- Created and maintained over 20 interactive dashboards using Power BI on Azure, incorporating advanced visualization techniques, allowing stakeholders to gain insights 50% faster, facilitating more informed decision-making and strategic planning.

Education

Master of Science, *Central Michigan University*   2022 – 2023 | Michigan, USA
Business Data Analytics