

Nidhi Patel

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Summary

Accomplished Data Engineer with over 3 years of working experience, in building scalable and high-performance software solutions. My expertise includes a comprehensive understanding of big data processing frameworks, proficiency in Python and a strong commitment to solve complex problems. Enthusiastic about blending my unique background in data engineering and Python development to drive innovation and deliver tangible results across diverse projects.

Skills

- **Python** Development for software applications, data analysis, and modeling.
- Data Science and Machine Learning with **Pandas, NumPy, scikit-learn, TensorFlow**.
- Proficient in **PySpark** for designing and optimizing data pipelines.
- API Development using **Flask** for **web development** and microservices.
- Database Management in both relational (**Oracle, MySQL, SQL Server, PostgreSQL**) and non-relational (**MongoDB, DynamoDB**) databases.
- Familiarity with web technologies such as **HTML, CSS**, and **JavaScript** for responsive interfaces.
- **AWS** Integration for robust database management, serverless computing, and messaging/streaming systems (**S3, RDS, Lambda, SNS, SQS**).
- DevOps expertise using **Jenkins, Kubernetes**, and **Docker** for **CI/CD** pipelines and container orchestration.
- Proficient in **Apache Kafka** for real-time data streaming.
- Automation Testing using **Pytest** for thorough unit testing and software reliability.
- Version Control with **GIT** and **TFS** for source code management.
- IDE Proficiency in **Jupyter Notebook, PyCharm**, and **Visual Studio Code**.
- Experienced in **Agile** and **Scrum** methodologies, utilizing **JIRA** for feature planning and release management.
- Developed interactive dashboards in **Power BI**, employing advanced analytics techniques and **DAX** for complex metrics.

Key Skills

Programing Languages	Python, JavaScript, HTML, CSS, NodeJs
Frameworks	Django, Flask, Bootstrap, Numpy, Pandas, TensorFlow, OpenCV, Matplotlib, Keras
Database Management System	MySQL, MongoDB, Oracle, SQL Server
Integrated Development	PyCharm, Visual Studios, Jupyter Notebook
Version Control	GIT, Github
Cloud Technologies	AWS EC2, S3, Microsoft Azure, Google Cloud
DevOps Tools	Docker, Kubernetes
Big Data	Apache Hadoop, Apache Kafka

Experience

TJX

Data Engineer | Remote | 09/22 – Present

At TJX Companies, a distinguished leader in off-price retail with a commitment to delivering value to customers, I actively participate in the Retail Analytics Enhancement project in close collaboration with the Merchandising Department. Leveraging advanced data engineering techniques, I play a pivotal role in crafting a data-driven approach to enhance retail analytics..

- Successfully integrated a diverse data source to create a unified dataset, enabling comprehensive analysis of product performance, customer preferences, and inventory trends.
- Implementing robust data pipelines, I ensure seamless data flow and accuracy, contributing to the development of advanced analytics models.
- Working closely with the Merchandising team, I apply my expertise in Python, SQL, and relevant frameworks (such as Pandas and NumPy) to uncover actionable insights.
- This involves segmenting customer groups, identifying purchasing patterns, and optimizing inventory management strategies to maximize sales and minimize excess stock.
- Developed and deployed machine learning models using TensorFlow and Keras to predict sales trends and customer behavior, resulting in significant improvement in forecasting accuracy.
- Implemented DevOps practices, utilizing Docker and Kubernetes, to streamline the deployment and scalability of data solutions.
- Utilized MongoDB for storing and querying unstructured retail data, enhancing flexibility in data retrieval and analysis.
- Demonstrated a robust data engineering approach by deploying secure solutions on AWS EC2 and S3, ensuring scalability and compliance with industry standards.

Branding Brand

Python Developer | Pittsburgh, PA, Remote | 11/21 – 08/2022

As a Python developer at Branding Brand, I contributed to the mission of creating digital experiences that shoppers love. My role involved revolutionizing the customer feedback analysis through the development of an Interactive Feedback Dashboard, which provided dynamic aggregation, sentiment analysis, and insightful metrics, ensuring a seamless user experience across various devices. My work at Branding Brand encapsulates a commitment to delivering cutting-edge technology and services for some of the world's largest retailers.

- Leverage Django for backend scripting to aggregate customer feedback from diverse sources, ensuring real-time data availability.
- Employ HTML, CSS, and JavaScript for frontend development, creating an interactive and visually appealing dashboard accessible from various devices.
- Implement real-time data visualization using D3.js to dynamically represent customer feedback trends, providing a comprehensive overview.
- Ensure a seamless user experience across devices with a responsive design. Implemented Django Authentication System for secure user authentication and role-based access.
- Well-versed in Agile and Scrum methodologies, utilizing JIRA for feature planning and release management. Developed interactive Power BI dashboards employing advanced analytics techniques and DAX for complex metrics.

MW Partners

Data Engineer | Remote | 05/19 – 10/21

As a data engineer at MW Partners, I played a pivotal role in designing and implementing an Employee Dashboard project. This comprehensive system efficiently tracked and managed crucial employee data, such as hours worked, sick time, and pay periods. My contribution aligned with the company's commitment to providing customer-focused, value-driven staffing, and technology solutions.

- Spearheaded the enhancement of MW Partners' employee database, implementing robust data management strategies for optimal efficiency and accuracy.
- Utilized advanced database management systems, including MySQL and MongoDB, to streamline the organization and accessibility of employee data.
- Applied Python programming for automation, optimizing data processing and ensuring the seamless integration of new employee information into the database.
- Employed data modeling techniques and frameworks such as Pandas and Numpy to refine and structure the employee database, enhancing its overall usability and reliability.

Education

California State University, Northridge

| Graduated 2023

Bachelor of Science (B.S) Computer Science

Certifications

Google Data Analytics Professional Certificate

| Google, 2023