

JHANVI PATEL

Piscataway, NJ

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Professional Summary

Result-driven Data Engineer with 7+ years of expertise in software development, scalable data pipelines, and data analytics. Proficient in Python, SQL, cloud platforms, machine learning, ETL, and data visualization. Skilled in PyTorch, PySpark, and Hadoop for actionable insights and data-driven solutions. Skilled in collaborating with cross-functional teams and delivering innovative solutions in fast-paced environments. Certified in AWS and Azure, with a deep understanding of cloud computing trends and technologies.

Experience

Outlier AI

Jan 2024 – Present

Data Engineer

Piscataway, NJ

- Engineered ETL pipelines using Python, PyTorch, and SQL processing 10M+ records daily and integrating machine learning models (sci-kit-learn), reducing ingestion time by 25%.
- Utilized Azure Cloud services and ADF for data storage and integration and reverse-engineered data streams, optimized ML models for anomaly detection, and automated dashboards to cut manual reporting by 40%.
- Developed and maintained performance dashboards in Power BI, integrating data from multiple sources to provide business insights and track key performance metrics.
- Designed and implemented data retention policies on multi-cloud infrastructure AWS and Azure, reducing storage costs by 18%, and improving data security.

Gannon University

Sept 2022 – May 2024

Graduate Assistant

Erie, USA

- Researched to integrate machine learning algorithms with LLMs and developed Python-based dashboards using Power BI and SQL to support research and academic performance monitoring.
- Utilized TensorFlow, PyTorch, and AWS/GCP to design AI systems and enhance data analysis workflows, contributing to a 30% improvement in security protocols, and improving data storage solutions using Azure Blob Storage and SQL Databases.

Microchip Technology Inc.

Aug 2019 – Jul 2022

Software Development Engineer II

Bangalore, India

- Engineered META-DX1 Software applications using Python, SQL, and ML algorithms to enhance security protocols by 42%, applying SW/HW co-design principles.
- Worked with business teams to identify key data insights and created interactive Power BI dashboards for senior leadership.
- Built and maintained multi-cloud infrastructure across AWS, Azure, and GCP for real-time data processing and storage.
- Executed complex test suites (PyTest and Google Test), facilitating seamless data schema redesigns and achieving a 29% boost in META-DX2 performance.

Vector India Pvt Ltd

Jul 2018 – Aug 2019

Software Engineer

Bangalore, India

- Built data models for embedded systems, using Python and SQL to streamline reporting and enhance system reliability.
- Migrated legacy systems to AWS, and ensured compliance with data privacy standards by implementing cloud security protocols and access controls.

Projects

Predicting Severity Factors (SF) in AI-based Software Applications | *Python, SVM, Radon, Pylint, PyTorch* May 2024

- Innovated the Predict Severity Factor (SF) to classify software components using PyTorch and SVM into four categories: Low, Medium, High, and Severe, leading to a 60% improvement in code quality by prioritizing refactoring tasks.
- Created automated Power BI reports to SF classifications using Python libraries, and SQL queries, and revolutionized the developed workflow by integrating Large Language Models, automating complex code refactoring, and reducing technical debt by 40%.

Real-Time Student Analytics Dashboard for Graduate Program | *Python, MySQL, AWS, Power BI* Apr 2023

- Built a real-time dashboard using Python, machine learning models, and Power BI, with AWS Cloud integration, processing data with MySQL, Apache Spark, and PyTorch, boosting system resilience.
- Deployed machine learning models to analyze trends, increasing system resilience and processing speed by 20%.

Education

M.Sc. in Computer and Information Science (Data Science), Gannon University, PA.– May 2024 (GPA: 3.94)

Bachelor of Information Technology, Gujarat Technological University, India. – May 2018 (GPA : 3.88)

Technical Skills

Languages: Python, Java, JavaScript, SQL, C++, R.

Tools: PyTorch, Power BI, Tableau, Snowflake, Django, MongoDB, PyCharm, PySpark, Seaborn, Matplotlib, Scikit-Learn.

Development skills: Data structures and Algorithms, Linux, Bitbucket, Jenkins, GDB Debugging, Agile, SDLC, API Integration.

Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP), Oracle, Azure.

Embedded systems: UART, I2C, SPI protocols, ARM7 microprocessor, 8051 microprocessor controllers.

Certifications

Hacker Rank Python Hacker Rank SQL AWS Cloud Practitioner Foundational Python for Data Science
Cyber Security Advanced Embedded Systems