

# Prithviraj Patil

Pune, Maharashtra | +91 8879222738 | prithvip.g89@gmail.com | [GitHub Profile](#) | [LinkedIn Profile](#)

## Lead Engineer & Data Science Specialist | Specializing in Data Analytics, ML, Generative AI, Cloud Solutions & Leadership

Dynamic and detail-oriented Data Science professional with a Master's degree in Data Science from the University of Arizona, USA, and over 11.9 years of experience in delivering innovative solutions to business challenges. Seek to leverage expertise in data analytics, machine learning, and project management to drive impactful decision-making and organizational growth.

KEY SKILLS	PROFILE SUMMARY
<ul style="list-style-type: none"><li>• Data Science &amp; Machine Learning</li><li>• Data Analytics &amp; Data Visualization</li><li>• Exploratory Data Analysis (EDA)</li><li>• Project Management</li><li>• Stakeholder Management</li><li>• Process Improvement</li><li>• Team Leadership</li><li>• Database Management- DBMS</li><li>• Generative AI</li><li>• Reporting and dashboard creation for data-driven insights</li></ul>	<ul style="list-style-type: none"><li>• <b>Data Science &amp; Machine Learning Solutions:</b> Expertise in building predictive models, recommender systems, and performing exploratory data analysis to solve complex business problems. Developed a customer segmentation model using k-means clustering, driving an 18% increase in marketing ROI.</li><li>• <b>Data Analysis &amp; Visualization:</b> Proficient in analyzing structured and unstructured data using Python, SQL, and Tableau to derive actionable insights. Built a predictive sales dashboard in Tableau, boosting forecast accuracy by 25%.</li><li>• <b>Project Management:</b> Skilled in end-to-end project lifecycle management, stakeholder collaboration, and cross-functional team coordination. Introduced a project tracking tool, reducing turnaround times by 20%.</li><li>• <b>Database Management &amp; Cloud Solutions:</b> Hands-on experience with Oracle, MySQL, AWS, Azure, and Hadoop for high-availability system setups. Optimized database queries, enhance performance by 40% and minimizing peak-hour downtime.</li><li>• <b>Process Optimization:</b> Adept at identifying inefficiencies, streamlining workflows, &amp; implementing solutions to enhance business operations. Automated workflows with Python, reducing recurring task processing time by 35%.</li><li>• <b>Team Management &amp; Stakeholder Engagement:</b> Led cross-functional teams, enhancing collaboration and project efficiency. Simplified complex technical concepts for non-technical stakeholders, driving alignment and quicker decisions.</li><li>• <b>Generative AI:</b> Adaptable in driving organizational transformation by integrating Generative AI solutions to enhance efficiency, innovation, and business outcomes.</li></ul>
TECHNICAL SKILLS	
<ul style="list-style-type: none"><li>• <b>Programming:</b> Python, SQL, Spark</li><li>• <b>Big Data Technologies:</b> Hadoop, Hive</li><li>• <b>Cloud Platforms:</b> AWS, Azure</li><li>• <b>Databases:</b> Oracle, MySQL, MongoDB</li><li>• <b>Data Visualization:</b> Tableau</li><li>• <b>Web/Application Servers:</b> Fusion Middleware, WebLogic, HTTP Servers</li><li>• <b>Operating Systems:</b> Linux, Windows</li></ul>	
PROJECT UNDERTAKEN	
<ul style="list-style-type: none"><li>• <b>Title:</b> Credit Card Fraud Detection   <b>Tech Stack:</b> Python, Pandas, NumPy, Scikit-Learn, TensorFlow / Visualization: Matplotlib, Seaborn</li><li>• <b>Objective:</b> To develop a machine learning model that detects fraudulent credit card transactions with high accuracy while addressing data imbalance and ensuring real-time applicability.</li><li>• <b>Achievements:</b> Designed and implemented models with 99.5% accuracy and an AUC-ROC score of 0.98, leveraging advanced algorithms and feature engineering to minimize false positives and negatives. Visualized transaction patterns and model performance, improving fraud detection efficiency and reducing losses by 40%.</li></ul>	
<ul style="list-style-type: none"><li>• <b>Title:</b> Finance &amp; Risk Analytics   <b>Tech Stack:</b> Python, Pandas, NumPy, Scikit-Learn / Visualization: Tableau</li><li>• <b>Objective:</b> To analyze financial market data to predict investment opportunities for portfolio management and mitigate financial risk.</li><li>• <b>Achievements:</b> Built predictive models to identify optimal investment opportunities and visualize risk metrics, leading to better decision-making in portfolio management.</li></ul>	
<ul style="list-style-type: none"><li>• <b>Title:</b> Click-Through Rate (CTR) Prediction   <b>Tech Stack:</b> Python, Scikit-Learn, Pandas / Visualization: Tableau</li><li>• <b>Objective:</b> To predict whether an audience will click on an ad to help the marketing team optimize ad placements.</li><li>• <b>Achievements:</b> Built a machine learning model that accurately predicted click-through rates, allowing the marketing team to strategically place ads, improving engagement and reducing marketing costs.</li></ul>	

More On: [GitHub Profile](#)

## WORK EXPERIENCE

### Lead Engineer- Service Delivery Analyst at FIS Global Solutions, Pune | Joined Sep. 2013

Joined as Database Engineer, then worked in the capacity of Service Delivery Analyst and rose to the position of Lead Engineer

#### Key Result Areas:

- Led the implementation of multi-product solutions to optimize service delivery, improving customer satisfaction through data-driven insights and process enhancements
- Spearheaded a \$3.5 million project to build high-availability systems for database and middleware, supporting business expansion across APAC and EMEA
- Identified bottlenecks and streamlined workflows, reducing processing times and enhancing operational efficiency
- Utilized Python, SQL, and Tableau to analyze complex datasets, generating actionable insights that supported financial risk analysis and product sales strategies
- Collaborated with sales, marketing, and operations teams to design and implement data-driven solutions aligned with organizational goals
- Mentored junior team members, providing training in data storage structures, data cleansing, and reporting best practices
- Fostered strong client relationships, ensuring the delivery of high-value projects and troubleshooting complex technical issues
- Contributed to the development of compliance dashboards for post-trade activity monitoring and risk mitigation, ensuring regulatory adherence

#### Highlights:

- Awarded "Above & Beyond Best Project" for exceptional project execution and delivery.
- Nominated for FIS Star Awards as Best Employee for outstanding performance and contributions.
- Recognized and featured in CIO newsletters for successfully onboarding high-revenue projects, driving significant organizational growth.

### Senior Associate at Tata Consultancy Services, Pune | Joined Apr. 2012

#### Key Result Areas:

- Coordinated with data miners & analysts to extract and load data from multiple sources using ETL tools like Informatica & SQL
- Assisted in designing, executing, and monitoring key metrics, reports, and dashboards to support compliance, governance, and risk management activities in Autosys
- Contributed to the development of a Python-based, data-driven risk mitigation dashboard, providing real-time insights for proactive risk management
- Utilized SQL to analyze large datasets, identifying trends and generating actionable insights
- Applied a hypothesis-driven approach to analyze A/B testing results and provide data-backed recommendations to optimize performance

## CERTIFICATIONS

- Machine Learning (Simplilearn)
- Azure Cloud Admin (AZ-104, AZ-900)
- Planning & Building Generative-AI Ready Organization (AWS)
- Oracle Database SQL Expert | Oracle Cloud Infrastructure Foundations 2020 | Oracle Autonomous Database Cloud Specialist (2019) | Oracle Certified Professional (Database Admin) | Oracle WebLogic Server Admin
- NSE Certification in Financial Markets (NCFM)
- ITIL Foundation Certificate

## EDUCATION

- Master of Science in Data Science from University of Arizona in 2024
- Bachelor of Engineering from University of Pune in 2011

## PERSONAL DETAILS

- **Languages Known:** English, Hindi & Marathi