Siddhesh Shankar

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About Me

Associate Consultant with 2+ years of experience in backend development and data analytics across the BFSI and e-commerce sectors. Skilled in designing scalable APIs, automating processes, and integrating data solutions that enhance operational efficiency. Adept at SQL, Python, Power BI, and RESTful APIs, with a strong interest in transitioning into full-time data science roles by leveraging domain knowledge and machine learning expertise.

Skills & Abilities

- **Programming Languages**: Python, Java, JavaScript
- **Databases**: Oracle DB, PostgreSQL, MySQL
- **API Development**: REST APIs, Oracle Helidon, JSON
- **Machine Learning & Analytics**: Statistical Data Analysis, Business Intelligence (BI), Product Analytics
- **Data Analysis & Visualization**: Power BI, Tableau, Looker Studio
- **System Administration**: Git, Linux, Google Apps Script

Experience

Oracle Financial Services Software (OFSS)   **July 2023 – August 2025**

Associate Consultant – Backend Development

- Oversaw End-of-Day (EOD) and reconciliation processing **SWIFT MT940, MT950, MT942 records** in the Nostro Reconciliation System (NRS) for HDFC Bank, analysing data trends to improve transaction accuracy by ~25% and enhance operational efficiency.
- Designed and developed **3 production-grade RESTful APIs using Java (JAX-RS) within the FLEXCUBE architecture,** ensuring clean resource representation and streamlined internal communications.
- Developed and maintained full-stack modules using Java (JAX-RS), vanilla JavaScript, and Oracle PL/SQL, delivering scalable internal banking solutions and enhancing performance across multiple high-traffic enterprise modules.
- Maintained high-quality, production-ready code by applying best practices and leveraging **SonarLint** for static code analysis, effectively reducing bugs and improving maintainability.
- Engineered a middleware wrapper to enable seamless communication between SOAP-based legacy systems and RESTful services, reducing integration time by **40%** and bolstering data interoperability.

EasyEcom Pvt. Ltd.   **January 2023 - June 2023**

Business Analyst Intern

- Optimized SQL queries and automated data pipelines, reducing manual intervention by ~ **30%** and **improving data accuracy** for business reporting.
- Automated dashboard data-fetching processes with JavaScript and Google Apps Script, achieving a **40% reduction** in manual reporting time and consistent refresh reliability.
- Developed interactive dashboards in Looker Studio and Power BI to support real-time, data-driven decisions.
- Conducted data cleaning, validation, and transformation using Excel and SQL for consistent and reliable analysis.
- Enabled user behaviour insights through Amplitude event tracking and supported solutioning for supply chain analytics with top D2C clients like **Meesho, Flipkart, and Borosil**.
- Explored API integration via Python and Google Apps Script to automate internal data workflows and improve process efficiency.

Genefied Brand Protection Solutions   **June 2022 - July 2022**

Data Analyst Intern

- Designed interactive dashboards using **Power BI and Google Analytics,** enabling clients to visualize data trends and support data-driven decision-making.
- Engaged with clients, including **BookMyShow** and **KEI Industries**, to present analytical insights and recommend strategic data solutions.
- Optimized data resource management practices, ensuring efficient data handling and improving data reporting procedures.
- Collaborated on the **R&D of new data architecture** with the Founder, contributing to enhancements in the company's data infrastructure and analytical capabilities.

Education

Symbiosis Institute of Technology, Pune   **2019 - 2023**

B.Tech in Computer Science & Hons. in Data Science

Nirmala Memorial Foundation College of Commerce and Science (NMFCCS)   2018 - 2019
Higher Secondary Education

Gokuldham High School and Junior College   2006 - 2017
High School Diploma

Projects

Just in Time Mart – Qwikart ⬈   January 2025 - Present
- Developing an e-commerce website using real-time inventory and supplier API integration.
- Building a Python-based, API-first architecture using **FastAPI**, **Pydantic**, and **SQLAlchemy** for high performance and scalability.
- Implementing **Just-in-Time fulfilment methodology** to eliminate overstocking and optimize inventory costs.
- Integrating machine learning models for predictive supply chain optimization and thereby designing a real-time product availability system with FastAPI and **PostgreSQL** for accurate stock visibility.
- Utilizing Postman API for testing and debugging endpoints, ensuring robust API performance.
- Deploying APIs with **Uvicorn** to enhance speed and efficiency in handling high-concurrency requests.

Alzheimer's Detection Using Vision Transformers – AGanTCAM ⬈   December 2021 – July 2023
- Developed an interpretable deep learning framework for early-stage Alzheimer's Disease classification using **6,400+** brain MRI scans.
- Achieved **87% classification accuracy** across four stages: No Dementia, Very Mild, Mild, and Moderate, using a Vision Transformer (ViT) architecture.
- Implemented **GAN-based data augmentation (DCGAN)** and traditional techniques to address class imbalance and enhance model generalization
- Incorporated **Grad-CAM** for explainability, enabling visual interpretation of model attention regions in MRI slices.
- Enabled robust **4-class diagnostic capability** with improved transparency and clinical relevance.

Certifications

- **The Data Scientist's Toolbox** ⬈   April 2024
  Issuer: John Hopkins University via Coursera
- **Python for Data Science & AI** ⬈   April 2021
  Issuer: IBM via Coursera
- **Diploma in Community Development**   September 2021
  Issuer: Alison
- **Using Databases with Python** ⬈   December 2020
  Issuer: University of Michigan via Coursera
- **Software Processes and Agile Practices** ⬈   November 2020
  Issuer: University of Alberta via Coursera
- **Python Data Structures** ⬈   July 2020
  Issuer: University of Michigan via Coursera
- **Python to Access Web Data** ⬈   January 2020
  Issuer: University of Michigan via Coursera

Extra-Curricular Activities

Football Training for Society Kids (Mumbai)   June 2021 – Present
- Conduct free football training sessions for 20+ kids aged 10–20, focusing on fitness, teamwork, and skill development.
- Designed age-appropriate drills and practice modules to enhance technical skills, endurance, and game awareness.
- Mentored youth by instilling discipline, sportsmanship, and leadership qualities through regular practice and matches.

Oracle Volunteering (OV) (Mumbai)   July 2023 - August 2025
- Blood Donation Camp: Collaborated with Hiranandani Hospital, Powai, and assisted the medical team in managing logistics, providing support to donors, and ensuring smooth operations throughout the event. Also participated as a donor, contributing personally to the cause.
- Education Drive - Physics Learning Aids for SSC Students: Designed educational flowcharts and visual aids to simplify complex Physics concepts for 9th and 10th-grade SSC students, enhancing their understanding and engagement with the subject.
- Beach Cleanup Drive - Dadar Chowpatty: Collaborated with a local NGO to conduct a beach clean-up activity, collectively removing 350+ kg of plastic waste. Contributed to restoring the beach's natural beauty and promoting environmental awareness.

Google Developer Student Club (GDSC) (SIT, Pune)   August 2019 - July 2023
- Data Science Collaboration: Participated in Data Science-related problem-solving events organized by Symbiosis Institute of Technology, Pune, and GDSC.