VIKAS REDDY
PYTHON DEVELOPER
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PROFESSIONAL SUMMARY

- Python Developer with over 3+ years of experience in enhancing banking security through advanced machine learning and real-time transaction monitoring. Skilled in leveraging Python, SQL, and cloud architecture to optimize fraud detection and streamline data processes, demonstrating a strong commitment to innovation and efficiency in financial technology. Adept at integrating predictive analytics with transaction monitoring, ensuring data integrity and improving system response times.

SKILLS

- **Programming Languages:** Python, Java, JavaScript, SQL, C++
- **Web Technologies:** Flask, Django, FastAPI, MERN Stack, HTML, CSS
- **Machine Learning & AI:** PyTorch, TensorFlow, Scikit-Learn, Generative AI, LLMs, Prompt Engineering, Model Deployment, LLM Ops
- **Cloud Platforms:** AWS (S3, EC2, Lambda, Redshift, Bedrock), GCP (Vertex AI, BigQuery)
- **DevOps Tools:** Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, CI/CD, Git
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Data Integration & APIs:** REST APIs, OpenCTI, Web Services, Connector Development.

EMPLOYMENT HISTORY

PYTHON DEVELOPER
M&T Bank-Newark, DE   Apr 2023 - Present

- Engineered Python-based machine learning models that reduced fraud detection false positives by 30%, improving alert precision and operational efficiency.
- Delivered credit risk analytics solutions by collaborating with cross-functional stakeholders, optimizing ML model performance and reinforcing financial security measures.
- Led the design and deployment of a real-time transaction monitoring framework using cloud-native infrastructure, significantly enhancing fraud mitigation efforts.
- Built custom connectors to seamlessly ingest transaction data, customer profiles, and fraud alerts into the OpenCTI platform, boosting threat intelligence accuracy.
- Developed targeted Python APIs for processor-level debugging, enabling in-depth analysis of failure-point array structures.
- Created robust API bridges between legacy systems and modern banking platforms, improving interoperability and reducing response latency.
- Refined data integration workflows to ensure secure, real-time transaction processing, proactively resolving issues to uphold platform reliability.
- Instituted advanced data validation mechanisms and exception handling strategies, safeguarding data integrity across mission-critical applications.
- Architected and implemented machine learning pipelines integrating predictive analytics with transaction tracking to bolster anti-fraud capabilities.
- Delivered secure, production-ready RESTful APIs enabling confidential financial data exchange and continuous transaction oversight in line with compliance standards.

PYTHON PROGRAMMER
WeMakeScholars-Hyderabad, India Jul 2022 - Dec 2022

- Crafted robust Python scripts for automated data validation, effectively identifying anomalies in financial transactions and strengthening fraud prevention workflows.
- Conducted comprehensive data cleaning, transformation, and consolidation using MySQL, ensuring high data fidelity for real-time analytics.
- Collaborated with business analysts to develop interactive SQL-driven dashboards, accelerating decision-making and enabling real-time operational insights.
- Boosted database efficiency by fine-tuning queries and optimizing indexing strategies, resulting in a 25% uplift in performance.
- Built asynchronous Celery tasks triggered via REST API calls to automate backend processes within Python environments.
- Enhanced reporting systems by reducing generation time by 40% through advanced SQL tuning and deployment of real-time visualization dashboards.
- Designed and maintained scalable data pipelines, integrating disparate data sources with MySQL to deliver consistent and timely datasets.
- Partnered with analytics teams to implement strategic index improvements, achieving 25% faster data retrieval and streamlined query execution.

JR. PYTHON PROGRAMMER (INTERNSHIP)
Filmistry Technologies Pvt Ltd, Bengaluru, Sep 2021 - Jun 2022

- Created Flask APIs to track attendance live and show the data in real-time.
- Built a real-time attendance system using Python and OpenCV to recognize faces, making attendance more accurate and reducing mistakes.
- Set up a secure MySQL database to store face data safely, following security and privacy rules.
- Designed a complete attendance system combining face recognition with a web-based dashboard to make tracking easier.
- Improved face recognition accuracy by tuning model parameters, enhancing training data with data augmentation, switching to better models, and reducing overfitting with dropout and early stopping
- Added user login and permission settings to protect sensitive data.
- Made the system handle more users by using Docker and setting up automatic load balancing.
- Cleaned and adjusted data to improve face recognition under different lighting and conditions.
- Tested system performance and adjusted model settings to reduce errors 90%.

EDUCATION

- Master of Science in Information Systems
Wilmington University, USA | Jan 2023 – Dec 2024

- Bachelor of Technology in Computer Science and Engineering
Jawaharlal Nehru Technological University, India | Mar 2018 – Jun 2022

CERTIFICATIONS

- AWS Certified Machine Learning – Specialty.

- Google Cloud Professional Data Engineer.