Prerna Shekhawat
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PROJECTS

Review Miner - MediaAMP

A tool that enhanced business insights for retailers by providing comprehensive data scraping and analysis for platforms like Amazon, Walmart, and Target. Built using Python and Flask, it ensures efficient data handling, scalable operations, and robust monitoring.

- Designed and developed scalable and robust web applications using Python and Flask.
- Scraped HTML pages and JavaScript-rendered websites, ensuring comprehensive data extraction from dynamic pages.
- Deployed Docker containers and managed virtual machines on a Proxmox server, creating isolated environments for task execution.
- Configured Celery with Redis for distributed task management and optimized data collection efficiency by 40%.
- Installed Prometheus and Grafana to monitor application performance and resource utilization in real-time.
- Created and managed Linux service files for automated application deployment and lifecycle management.
- Connected and administered servers over SSH for remote configuration and maintenance.

TimeChronos - MediaAMP

A comprehensive solution for managing employee timesheets on a weekly basis. Built with Python, Flask, and PostgreSQL, this application simplifies time tracking and enhances organizational productivity. The project is deployed on AWS using Zappa for seamless scalability and management.

- Developed and integrated RESTful APIs with Flask, using SQLAlchemy and Marshmallow for data modeling and validation.
- Integrated user-facing elements with server-side logic in collaboration with frontend developers to deliver a seamless user experience.
- Managed Redis for session handling, ensuring secure and efficient user sessions.
- Deployed the application on Amazon EC2 with S3 for static files, achieving 99.9% uptime reliability.
- Leveraged Zappa to deploy and manage the application on AWS, ensuring scalability and efficient resource utilization.

CERTIFICATIONS, SKILLS & INTERESTS

Certifications

- Microsoft Certified: Azure AI Fundamentals
- Udemy SQL Programming
- Udacity – Introduction to Generative AI with Google Cloud
- LinkedIn Python Object-Oriented Programming

Skills

- Programming: Python, JavaScript, HTML, CSS
- Frameworks: Flask, Django,Celery, SQLAlchemy, Marshmallow
- Databases: PostgreSQL, MySQL, MongoDB
- DevOps: Docker, Proxmox, AWS (EC2, S3, RDS), Redis, Prometheus, Grafana
- Tools: Git, Postman, Zappa, Web Scraping (HTML & JavaScript-rendered pages)

Interests

- Reading books, traveling, and exploring new technology stacks.
- Passionate about creating engaging video content and photography; manage a public Instagram account to document and share my life journey.

PROFESSIONAL EXPERIENCE

MediaAMP - Full Stack Developer   *Jan 2024 – Present | Ahmedabad, Guj.*

- Developed and maintained **Review Miner** and **TimeChronos**, leveraging advanced data scraping and timesheet management features.
- Managed local and remote servers, including writing and deploying Linux service files for application lifecycle management.
- Enhanced backend efficiency by integrating Redis for session handling and developing scalable APIs with Flask.
- Gained hands-on experience in containerized deployments using **Docker** and **Proxmox** virtual machines.
- Collaborated with cross-functional teams to build responsive user interfaces with React and optimize data flow between front-end and back-end.

INTERNSHIP EXPERIENCE

Let's Grow More - Data Science Intern   *May 2023 - July 2023 | Virtual*

Stock Price Prediction: Implemented LSTM models to analyze historical stock market data, achieving 80%+ accuracy in forecasting trends, leading to optimized investment decisions and a 25%+ increase in portfolio returns.

- Created a predictive model for forecasting stock prices based on historical data.

TensaX Innovation Lab - Machine Learning Intern   *May 2023 - July 2023 | Jaipur, Raj.*

Graph Toolformer: Constructed a knowledge graph for Sri Aurobindo's books data, synthesizing complex information to create a visually intuitive representation.

- Implemented Neo4j database to efficiently catalog and manage data from Sri Aurobindo's books, resulting in a 50% reduction in data entry errors and a 30% increase in data accessibility for research and analysis.

EDUCATION

Poornima University   *2022 - 2024 | Jaipur, Raj.*
- Master's of Computer Applications
- CGPA: 9.0

Rajasthan University   *2019 - 2022 | Jaipur, Raj.*
- Bachelor's of Computer Applications
- CGPA: 7.68

ACHIEVEMENTS & AWARDS
- Completed Microsoft Learn AI Skills Challenge.
- Project Manager for an NSP (Non-Syllabus Project), leading a team of 2+ students to successful completion.