

Prithviraj Patil

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Skills

Languages/Technologies: Python, RPA, Pandas, SQL, JSON, JavaScript, Power Automate Desktop, LLM.

Work Experience

Star Knowledge

Mar 2024 - Present

Associate Software Engineer

- Designed and implemented a **web automation** system using Power Automate Desktop to streamline repetitive tasks. Automated multi-user logins, navigation across different pages, document uploads, and session logouts, significantly reducing manual intervention up to 90% and improving operational efficiency.
- Developed an end-to-end automation system using Power Automate Desktop, Python, and AWS S3 to streamline Mutual Fund Order Tracking. Automated daily file downloads from S3, organized them in date-wise folders, and used Python to validate Excel data, identifying issues like #N/A or #VALUE to classify reports as valid or inconsistent.
- Implemented dual email workflows:
- For **valid Excel files**, PAD triggered emails to Ops with embedded **Approve/Reject action buttons** using Outlook Adaptive Cards or actionable message features.
- For **inconsistent files**, PAD dispatched detailed error reports highlighting faulty data with no action buttons, prompting manual review and correction.
- **Configured PAD to monitor email responses** using Outlook rules and triggers. Upon Ops approval via button click, the automation resumed automatically and dispatched personalized client emails with the validated Excel data.
- Performed **ETL operations** in the **reconciliation process**:
 - **Extracted** files from **SFTP, Emails, and S3** using PAD and Python.
 - **Transformed** and cleaned data by applying reconciliation rules and data checks using Python.
 - **Loaded** the processed data into the database for further analysis and reporting.
- **Monitored automation flows end-to-end** by implementing logging, success/failure tracking, and real-time dashboards within **Power Automate**.
- Delivered regular **demos to UAT and production stakeholders**, ensuring alignment with business goals and user expectations.
- **Architected a Multi-Agent AI Workflow**: Developed a 3-stage pipeline (Extraction, Validation, Posting) using **n8n, Python, and GPT-4o** to automate the processing of complex, multi-page invoices with varied vendor formats.
- **Engineered Intelligent Data Extraction**: Integrated **pdfplumber and Tesseract OCR** to transform unstructured data into normalized JSON, implementing automated currency and tax normalization for downstream processing.
- **Automated SAP Integration & Validation**: Built a validation engine to check invoices against **SAP master data** (GR/PO) with custom tolerance logic, automating final document posting via **ODATA/BAPI** while maintaining an audit-ready dashboard.
- Built an **automated Generative AI workflow in n8n** with webhook-triggered topic input, Groq Chat AI blog generation, Hugging Face visual creation, and DataTable-based output storage.
- Integrated **Groq Chat AI** for automated text generation and **Hugging Face AI** for generating diverse, topic-relevant images.
- Implemented **style variety** for content and visuals (listicle, story, question, contrarian; minimalist, corporate, neon, infographic) to enhance engagement.
- Achieved **fully automated content creation** with <20 seconds processing per topic and structured JSON outputs for seamless CMS/front-end integration.
- Designed a **tracking system** using DataTable to store and retrieve generated blogs and images efficiently.
- **N8N workflow** : <https://github.com/prithvirajpatil29/Generative-AI-Content-Creation>
- **Technologies**: Python, Pandas, RPA, MySQL, Power Automate Desktop, Copilot, JSON, ETL, LLM, AI, Gen AI, N8N, Workflows, Webhook, API.

Project Work

Indian Startup Funding Analysis: Conducted a comprehensive Exploratory Data Analysis (EDA) on the Indian startup funding ecosystem using a real-world dataset. The analysis involved examining funding rounds, industry sectors, geographic distribution, investor trends, and temporal patterns to uncover meaningful insights. Key trends were identified to support data-driven decision-making for investors, entrepreneurs, and policymakers. The findings were effectively visualized through interactive plots and dashboards, highlighting funding patterns and correlations to present actionable insights.

Github code Link - https://github.com/prithvirajpatil29/EDA-Project/blob/main/indian_startup_fundings.ipynb

Gen AI Text to Image:

- Developed a web app for generating images from text prompts using multiple AI models (Hugging Face, Pollinations).
- Implemented a modern chat-style UI with responsive design for desktop and mobile.
- Built secure backend using Vercel serverless functions to handle API keys and image generation.
- Enabled model fallback, image download, and seamless prompt-to-image workflow for enhanced user experience.

Technologies used – LLM Models, AI Integration, Hugging Face, Javascript, Cursor AI.

Github Link - <https://github.com/prithvirajpatil29/text-to-image-generator>

Live - <https://text-to-image-generator-bhdd8l2cu-prithviraj-patils-projects.vercel.app/>

Web Scraping Projects:

- Automated the extraction of 4,000+ property records from platforms like NoBroker using **Power Automate Desktop (PAD)**, incorporating **JavaScript functions for dynamic scrolling** and interaction with infinite scroll pages.
- Handled complex **pagination and dynamic content loading** by simulating real user behavior, ensuring complete data retrieval from JavaScript-heavy websites.
- Parsed and **stored scraped data in a well-structured Excel/CSV format**, organizing it by fields such as property details, pricing, and location for easy analysis.

Education

JSSATE Bengaluru

B.E. in Computer Science and Engineering

Aug 2019- Jun 2023

CGPA: 7.96/10

Certificates/Course

- Power Automate Advance:
https://www.linkedin.com/learning/certificates/210d5da3fc5dd1458ded31b76a68a83cccf28c7edd42d0fc21bc47f6f31c4947?trk=share_certificate

Profiles

- Github - <https://github.com/prithvirajpatil29>
- LeetCode - <https://leetcode.com/u/prithvirajpatil29/>
- LinkedIn - <https://linkedin.com/in/prithviraj-patil-384820200>