# PAWAN KUMAR

**AI Engineer | Python Developer | Data Analyst | LLM & Generative AI Integrator**
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## SUMMARY

Dynamic **AI Engineer** with 3 years of experience designing, developing, and deploying **AI** and **generative AI** solutions. Expert in **Python programming**, **algorithmic trading**, **data analysis**, and **backend engineering**. Proven **expertise** of integrating **large language models (LLMs)** into **production-grade** applications, delivering scalable, **high-impact AI systems**. Specialized in **building full-stack AI solutions** for **finance, trading**, and **automation**, combining **innovative technology** with measurable **business results**.

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## WORK EXPERIENCE

### AI / ML Engineer , Finsocial Digital Systems                    Oct 2024 - Present

- Built **Indian LLM models** and developed AI tools for algorithmic trading using AI-ML frameworks like **TensorFlow**.
- Developed AI agents using **LangChain** , **Agno** and Google Gemini for financial data interpretation including geospatial data insights.
- Built India-focused LLM models delivering accuracy surpassing GPT-o3 on internal benchmarks.
- Developed multiple Python-based **automations** leveraging LLMs.
- Engineered full-stack AI solutions using Python, TensorFlow, **Streamlit**, **AWS**, Next Js ,and **REST APIs**, enabling scalable **cloud deployment** of trading tools.

### Data Analyst , Bytequity                    Dec 2023 - Aug 2024

- Automated 8 trading strategies on **Fyers/Kite** platforms (25% efficiency gain) using data engineering pipelines.
- Created **no-code** tools for WhatsApp/email marketing and **HNI client** automation with cloud integration.
- Performed market scraping, **cloud-based** data analysis and dashboard development.
- Delivered automation tools and dashboards for clients in **finance**, **marketing**, and geospatial domains.

### Python Developer , Orga Plants                    Mar 2022 - Mar 2023

- Joined as a intern and after 1 month promoted to full time.
- Handled **web scraping** of user/product/order data for an e-commerce system including geospatial mapping features.
- Developed backend with Django and optimized UI load times by **80%**.
- Make a **web scrapping automation** process and add in their platform.

### Python Developer Intern , Care Team Private Limited                    Jan 2022 - Mar 2022

- Built an online **certificate generator platform**, managing CSV file datasets and user data, including 10k+ user records, using Python and Django.
- Reduced manual processing time by 70%, significantly improving user experience.

## PROJECTS

**1.Full-Stack AI YouTube Video Automation Platform →** 🔗
- End-to-end **Python** system that generates script, video, thumbnail, and SEO description, then uploads to YouTube via a **multi-model LLM pipeline** where each model handles a specific task.
- Cut video creation time from hours to minutes, enabling scalable content production

**2.Finance Agent Assistant →** 🔗
- Built a Streamlit app delivering **real-time stock analysis** and trading insights using a **multi-model LLM pipeline** to interpret **market conditions**.

**3.Globe Hopper – AI Travel Itinerary Generator →** 🔗
- Enter trip duration and destination , the app generates a complete plan automatically.
- Generates complete trip plans and exports PDFs from a **single prompt** .

**4.MedX Tutor : An AI-powered medical imaging ->** 🔗
- AI educational tool that generates radiographic images and guides students in X-ray interpretation via a **multi-model LLM pipeline**.

**5.AI Email Auto-Responder →** 🔗
- Reads Gmail threads and sends context-aware replies via IMAP/SMTP using LLMs, combining AI agents with **Python automation.**

**6.AI Social-Media Manager -  Linkedin Demo** 🔗 **,    X  Demo** 🔗
- One-click **Python** tool that generates images, writes posts, and auto-uploads to LinkedIn and X/Twitter through a **multi-model LLM pipeline** for full workflow automation.

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## SKILLS

- **Programming & Development:** Python, Django, FastAPI, Streamlit, HTML, CSS, JavaScript, Git, GitHub
- **AI/ML Frameworks & Libraries:** TensorFlow, scikit-learn, Hugging Face, Ollama, Pandas, NumPy, Matplotlib, Langchain , Agno, STT ,TTS
- **AI Specializations:** Computer Vision, Natural Language Processing (NLP), LLMs, Generative AI Pipelines, Fine-tuning, Prompt Engineering, Retrieval-Augmented Generation (RAG), Vector Databases, LoRA, vLLM, quantization, Docker
- **Data & Analytics:** Data Analysis, SQL, MySQL, Data Analytics, Data Management, Data Quality, Data Visualization
- **Cloud & Infrastructure:** AWS, Azure, Cloud APIs, GPU, Automation
- **Finance & Trading: Backtesting,** Option Strategies, Algorithmic Trading
- **Additional Technologies:** Web Development, App Development, WordPress

## CERTIFICATIONS

- IBM Data Science Professional Certificate
- Python for Data Science and AI
- Microsoft Future Ready Talent Intern