

Yuvraj Singh Gahlot

AI Engineer | Data Scientist | Product Developer

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PROFESSIONAL SUMMARY

Data Scientist with 3+ years building AI/ML solutions for businesses, backed by 7 years of analytical problem-solving in engineering operations. Proven track record delivering measurable results: 25% efficiency improvements in process optimization and 30% reduction in data processing times through Python-based automation and machine learning models. Specialized in generative AI, predictive analytics, and building production-ready data pipelines. Successfully built and deployed 5+ end-to-end ML projects including customer churn prediction (87% accuracy), real estate price prediction, NLP sentiment analysis, and AI-powered SaaS applications with FastAPI backends.

CORE SKILLS

Programming: Python, SQL, JavaScript, TypeScript

Product Development: SaaS MVP development, end-to-end feature ownership, product iteration, deployment, user-focused delivery

AI Tools : ChatGPT, Claude, Gemini, Perplexity, Cursor, GitHub Copilot, OpenAI API, Anthropic API, LangChain, n8n AI agents, Vercel.

Data and Analytics: Pandas, NumPy, Statistical Modeling, Predictive Analytics, EDA

Backend and APIs: FastAPI, REST APIs, Node.js

Frontend and Product: React, Next.js, HTML, CSS

Visualization and BI: Tableau, Power BI, Plotly, Streamlit, Excel

Databases and Tools: PostgreSQL, Git, GitHub, Jupyter, Airtable

PROFESSIONAL EXPERIENCE

(Freelance) | Mumbai, India

February 2022 - Present

- Built and launched SaaS and AI-driven products for 8+ SMB clients across fintech, e-commerce, and real estate.
- Built automation and analytics workflows with Python that reduced client processing time from 6.0 hours to 4.2 hours (30% improvement) across workflows handling 50K+ daily records.
- Created AI automation workflows using OpenAI APIs, reducing manual process effort by 40% for document and customer-query operations.
- Designed and deployed FastAPI services for model inference, supporting real-time predictions with about 200 ms average response time.

- Independently developed and shipped 3 production SaaS products using Next.js and TypeScript on the frontend with Python/FastAPI services on the backend.
- Built Tableau, Power BI, and Streamlit dashboards that improved reporting clarity and decision speed for business teams.

Analyst - Operations | GME ENVIREMENTS, Udaipur, India

January 2019 - January 2022

- Analyzed 500K+ operational records to identify process bottlenecks and improve planning decisions.
- Improved process efficiency by 25% through data analysis, statistical methods, and optimization models.
- Automated reporting pipelines with Python (Pandas, NumPy) and SQL, reducing manual processing time from 8 hours to 2 hours per day.
- Created Tableau dashboards that improved reporting turnaround by 35% for operations and management teams.
- Built data validation workflows that maintained 99.5% data quality across multiple source systems.

SELECTED PROJECTS

Entropy - AI Humanizer | React, Vite, AI integration

Live: <https://entropy-iota.vercel.app/> | Code: <https://github.com/yuv2819-cmyk/Entropy>

- Built an AI text-humanization product that rewrites robotic output into clear, natural content.
- Focused on response speed and editor usability to improve user adoption.

Voidspace Canvas - Interactive Workflow Builder | React, TypeScript, Node.js, HTML5 Canvas

Live: <https://voidspace-canvas.vercel.app/> | Code: <https://github.com/yuv2819-cmyk/voidspace-canvas>

- Built a graph-based workflow canvas with typed nodes, real-time validation, and fast interactions.
- Designed for complex workflows where readability and reliable behavior matter most.

Smart Spreadsheet - AI-Powered SaaS MVP | TypeScript, Next.js, FastAPI, OpenAI, PostgreSQL

Live: <https://smart-spreadsheet-nu.vercel.app/> | Code: <https://github.com/yuv2819-cmyk/Smart-spreadsheet>

- Built an AI-assisted spreadsheet workflow with natural-language querying and analytics generation.
- Implemented tenant-aware backend APIs and data workflows for production-style usage.

Lead Management and Agent Monitoring System | React, Node.js, MongoDB, REST APIs

Live: <https://dubai-real-estate-hub-three.vercel.app/> | Code: <https://github.com/yuv2819-cmyk/dubai-real-estate-hub>

- Built a multi-role SaaS product for lead pipelines, agent monitoring, and analytics dashboards.
- Implemented role-based access, workflow automation, and operational reporting in one platform.

PRODUCT DEVELOPMENT

- Independently built and shipped SaaS products end-to-end, from problem discovery to production release.
- Owned full product lifecycle: UX flows, frontend, backend APIs, data layer, deployment, and iteration.
- Shipped fast release cycles with clear user feedback loops and continuous product improvements.

EDUCATION

Bachelor of Engineering in Mining Engineering

Pacific University, Udaipur, India | January 2015 - January 2019

CERTIFICATIONS

Data Science and AI - Core Expertise | Intellipaat | January 2023

Certificate: <https://lms.intellipaat.com/certificate-link/?Yz1jdXMtNTU3MjQ0NCZ1PTIwNjc4MiZleHQ9MQ==>

Some official documents may show a different first name. Preferred professional name: Yuvraj Singh Gahlot.

KEY ACHIEVEMENTS

- Built and deployed 8+ production-ready AI and SaaS products for real business use cases.
- Improved operational efficiency by 25% and reduced data processing time by 30% in client environments.
- Independently developed and launched 3 SaaS products with end-to-end ownership from ideation to deployment.
- Shipped end-to-end systems covering data pipelines, model logic, APIs, and user-facing applications.