Vicky Kumar

Ghenva, New Delhi-110081

☎ +918383848219 ✉ npdimagine@gmail.com 🔗 https://www.linkedin.com/in/algsoch/
 https://github.com/algsoch 🌐 https://sites.google.com/view/vicky-kumar/home

Summary

Visionary data scientist, full-stack AI developer, and early-stage tech founder in training at IIT Madras. On a mission to build high-impact, global-first tools at the intersection of AI, automation, and engineering. Inventor of platforms like "Vicky Server" and "Vicky App," combining intelligent backend logic, question matching engines, webhook automation, and API orchestration for real-world use. Deep skills in Python, FastAPI, LangChain, DuckDB, deployment stacks, and data science foundations. Eager to join global teams, visionary professors, or ambitious startups to create category-defining solutions

Skills

- **Programming Languages**: Python, HTML, CSS, Java, C, SQL
- **ML/AI**: PyTorch, Sklearn, OpenCV, Pandas, NumPy, LangChain
- **Backend**: FastAPI, Flask, MongoDB, REST APIs, Regex, DuckDB
- **Tools & Technologies**: Git, GitHub Actions, Postman, ChatGPT, CVAT, YouTube API
- **Deployments**: Docker, Azure, cloudflared, ngrok, vercel
- **Soft Skills**: Strong Communication, Teamwork, Problem-Solving, Adaptability

Work Experience

Avid Surgico | *Web Developer & Data Entry Intern (Remote)*   **Feb 2024 - Jul 2024**

- Developed a responsive website for AVD Surgico
- Designed a user-friendly dashboard with a product catalog and pagination, improving navigation and satisfaction.
- Integrated client feedback management for better service quality.
- Utilized HTML, CSS, JavaScript, and MongoDB to enhance website functionality and streamline data management.
- Improved user retention and satisfaction through intuitive design.
- Performed extensive data entry tasks, including extracting data from PDFs and organizing them into professional documents.
- Created polished, image-rich catalogs and refined company documentation for a more professional presentation.

Outlier Platform | *Prompt Engineer & AI Trainer*   **Oct 2024 - Feb 2025**

- Train AI systems in 10+2 level mathematics and advanced calculus, covering topics such as algebra, geometry, trigonometry, integration, differentiation, and multivariable calculus.
- Teach various programming languages, including Python, Java, HTML, CSS, Ruby, JavaScript, C, SQL, and more.
- Develop structured lessons and exercises to enhance AI's understanding of both theoretical and practical coding concepts.
- Foster strong problem-solving skills and computational thinking in AI systems, contributing to their improvement and efficiency in real-world applications.
- Data Annotation & Labelling: Annotate and label text, images, and structured data to refine AI training models.
- Collaborate with data scientists and ML engineers to refine data collection and annotation guidelines.

Education

IIT Madras   **May 2024 - May 2028**
B.S. Data Science and Applications (GPA: Machine Learning, Python, Tools of Data Science, Statistics, ML Foundations Machine Learning Techniques, Business Management)

Govt Sarvodaya Co-Ed Vidyalaya   **May 2020 - Aug 2021**
10th, CBSE   *Ghevra, New Delhi*

Govt Sarvodaya Co-Ed Vidyalaya   **May 2022 - May 2023**
12th, PCM CBSE   *Ghevra, New Delhi*

Projects

Chatbot for TDS iit madras | *IIT MADRAS*   **Mar 2025 - Apr 2025**

- Accessible via app.algsoch.tech, Vicky App is the UI-driven assistant built on top of vicky_server.py. It handles user queries, triggers backend logic dynamically, and supports: terminal commands, repo creation, Docker image builds, GitHub workflow setup, image compression/base64 encoding-decoding, pattern and file recognition. It also integrates with Discord/Slack for alerts.
- A FastAPI-powered logic engine that processes YouTube transcripts, matches 1000+ question formats via regex/phonetic matching, dynamically executes code, and handles real-time webhook/file pipelines. Supports LangChain integration and question-driven DevOps execution logic also A FastAPI-powered logic engine that processes YouTube transcripts, matches 1000+ question formats via regex/phonetic matching, dynamically executes code, and handles real-time webhook/file pipelines. Supports LangChain integration and question-driven DevOps execution logic.

Certifications

- **Foundation Level Certification in Programming and Data Science**: IIT Madras (Dec 30, 2024), 8 CGPA

Languages

- English (C1 - Advanced), Hindi (Native)