

AMAN ARYAN

PYTHON BACKEND DEVELOPER & AI INNOVATOR [915516504] |
witharyanimprove@gmail.com | [portfolio](#) | GitHub : github.com/spidy-senpai

PROFILE A high-velocity self-taught developer and creative problem-solver specializing in **Python Backend systems** and **Artificial Intelligence**. Expert at bridging the gap between artistic vision and robust code. Proven ability to architect complex AI models and scalable backend logic, demonstrating a technical maturity and rapid learning capability that translates directly into immediate corporate value.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python (Advanced OOP), **Flask**, Data Structures, Automation.
- **AI & Data Science:** NumPy, Pandas, Matplotlib, Seaborn, Computer Vision, Deep Learning (Ongoing).
- **Tools & Platforms:** Figma (UI/UX Design), Git, GitHub, Firebase (NoSQL), Vercel.
- **Approach:** Rapid Self-Learner, Agile Development, Out-of-the-box Problem Solving.

PROJECTS Filler – Advanced Neural Image Colorization [[visit](#)] [GitHub : <https://github.com/spidy-senpai/filler>]

- **Core Achievement:** Developed a sophisticated web-based tool that utilizes **Deep Learning** to "fill" grayscale images with realistic, vibrant color data.
- **Technical Implementation:** * Optimized a **Pretrained Convolutional Neural Network (CNN)** to perform automated chrominance prediction.
 - Engineered the image processing pipeline using **OpenCV** and **NumPy** to convert images into the **LAB Color Space**, ensuring the 'L' (Lightness) channel remains untouched for 100% detail retention.
 - Built a lightweight **Flask** backend to handle image uploads, model inference, and real-time result rendering.
- **Skill Highlight:** Demonstrated the ability to research, implement, and fine-tune existing AI architectures to meet specific project goals.

EDUCATION Secondary Education (9th Grade) | *Expected Graduation: 2028*

- Maintaining a focus on advanced computer science principles and mathematics ahead of the standard curriculum.

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