

Aksnansh Singh Pal

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Experience

Python Intern, Yash Technologies, Indore Jan 2025- Present

- Designed and developed interactive full-stack "Test Portal" applications using Python, MySQL, CSS and Streamlit.
- Implemented different python libraries such as streamlit- to build and deploy, pandas- to represent graph and data for report, etc.
- Build a complete website with admin and user side interface and functionality

Network Engineering Trainee, In-house Internship Aug 2023 – Dec 2024

- Completed 3 core CCNA certification modules: Introduction to Networks; Switching Routing and Wireless Essentials; and Enterprise Networking, Security and Automation.
- Gained practical experience in network configuration, router/switch management, wireless security, and automation principles.

Projects

NEUROVOICE AI: A Non-Invasive Acoustic Diagnostic System for Early Parkinson's Disease Detection

- Architected a full-stack AI diagnostic system to detect early-stage Parkinson's Disease from voice recordings, achieving 90.77
- Engineered a "Physics-Aware" feature extraction pipeline using Librosa to analyse vocal biomarkers (Jitter, Shimmer, Spectral Rolloff), overcoming data security with robust data augmentation strategies.
- Deployed a scalable microservices architecture integrating a Python AI engine, secure .NET Core API Gateway and a responsive Angular frontend for real-time screening.

Eco-Initiative Platform (Google Solution Challenge 2024)

- Developed an interactive platform to promote sustainable habits and local eco-initiatives, addressing UN goals on climate change.
- Engineered core features for users to track their environmental impact, find local events, and resources on waste management and energy conservation.
- Engineered a full-stack expense management application with a .NET Core API backend, EF Core, and a responsive Angular/PrimeNG frontend. Integrated a Retrieval-Augmented Generation (RAG) model to provide AI-driven financial insights, including spending pattern analysis, personalized saving suggestions and expense forecasting

Technologies

Frontend: Angular, PrimeNG, C/C++, Python

Backend: C/C++, Python

Tools: Git, GitHub, Postman, Cisco Packet Tracer

Education

Medicaps University, Indore May 2026
B.Tech in Computer Science Engineering Ongoing