

# KARTIKEY PANDE

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## SKILLS

**Programming Languages :** Python,Sql  
**Networking Library&Framework:**Pyats&Genie  
**Web Technologies:** Html,CSS,Javascript ,React.js  
**Framework and Tools:**Bootstrap,Git,Tailwindcss,Django,flask

**OS:**Linux/Unix Command  
**DataBase:** MySql

## EXPERIENCE

### Cisco India Private Limited , Bengaluru

Nov 2022 - Nov 2023

Software Engineer

#### 1. TCAM Utilization Analysis

Partnered with the **Team Lead** to optimize **TCAM (Ternary Content Addressable Memory)** utilization across Cisco switches. Designed and implemented a **Python-based automation script to execute and validate show hardware access-list resource utilization** outputs before and after system reloads using Genie. Enhanced visibility into hardware resource efficiency and ensured reliable post-reload state validation.

#### 2. Cisco NDI Tool

- Collaborated with the mentor to enhance the **Cisco NDI (Nexus Dashboard Insights)** platform by developing robust Python automation scripts for network API integration. Implemented data parsing and variable mapping to enable real-time connectivity analysis, including automated ping verification and packet flow monitoring across **Cisco Nexus switches**. Utilized **PyATS (Python Automated Test System)** to generate comprehensive validation reports, improving network visibility and diagnostic efficiency.

## PROJECT

### Network Health Monitoring System | Python, Flask, SQLite, Pandas, Matplotlib

- Developed a web-based tool to monitor the health and performance of network devices.
- Used Python scripts to collect metrics such as latency, packet loss, and uptime. Stored network performance data in SQLite for analysis and reporting.
- Built an interactive Flask dashboard to visualize real-time and historical data using Matplotlib.
- Automated alerts and reports to identify connectivity issues early and improve network reliability.

### Video Streaming UI | React, TailwindCSS, and React Router

- Developed a modern video streaming UI using React, TailwindCSS, and React Router.
- Created homepage with category-based sections, trending videos, and thumbnail grids.
- Implemented a custom video player page with descriptions, views, and related content.
- Added search with debounce to optimize API calls and improve performance.
- Designed reusable components and integrated dark/light mode for enhanced UI/UX.

## EDUCATION

BTech (CSE)

July 2017- May 2021

Jaypee University Anoopshahr

CSE(Computer Science & Engineering)