

# KARTIKEY PANDE

[kartikey.pande123@gmail.com](mailto:kartikey.pande123@gmail.com) || 9870655114 || [Linkledin](#) || [github](#)

---

## 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)

Jaypee University Anoopshahr

CSE(Computer Science & Engineering)

**July 2017– May 2021**