Prasad Sadanand Mahabare

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I am a Purdue University Computer Science Master's student, skilled in Network Engineering and Machine Learning Automation. My passion lies in addressing real-world business issues through NLP and pattern recognition**. Proficient in Python, SQL, and UI/UX, I excel in data mining and automation.**

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, HTML5/CSS4, PHP, JSON, XML.
- **Developer Tools:** AWS, Docker, VirtualBox, Ansible, Splunk, VSCode, Postman, Figma, Bravo, AutoCAD, Adobe Creative Cloud, PowerApps, ServiceNow, BMC Footprints, TeamDynamix, SolarWinds, Cisco Prime Infrastructure, Cisco Wireless Controller, Identity Services Engine, InfoBlox Grid Manager, LibreNMS, Grafana, SecureCRT, MobaXterm, Unity, Unreal-Engine, Wireshark, Kali.
- **Technologies/Frameworks:** TensorFlow, Keras, Scikit-learn, Numpy, Scipy, Pandas, Matplotlib, Jupyter, NLTK, Django, Flask, NodeJS, Mocha, Azure, Selenium, Bootstrap, Shoodan, Nmap, Metasploit, Regex.

PROFESSIONAL EXPERIENCE

- **Student Network Engineer, Purdue University** **January 2023 – present**
  - **Automated networking tasks with Python scripts**, monitored client domain names in AWS Route 53, and conducted trend analysis using networking tools to resolve outages and create precautionary reports.
  - Also, provided **consultations and solutions for client network** requests and issues.
- **Senior Help Desk Associate, Purdue University Fort Wayne** **February 2022 – January 2023**
  - **Delivered exceptional customer service** through phone, email, and in-person interactions. I use ServiceNow to monitor, evaluate, and prioritize end-user issues, ensuring timely resolutions.
  - **Revamped the training program for new hires**, enhancing their skills and onboarding experience while effectively handling additional projects.
- **Graphic Design Intern, Biorev Studios** **April 2021 – May 2021**
  - **Streamlined scrum meetings**, creating appealing materials for events using Adobe Creative Cloud and Canva. I collaborated on creative social media ideas with storyboards.
  - Used Figma and Bravo to design innovative mock-ups, **ensured an engaging user experience** for the company's app and website.

EDUCATION

- **Master of Computer Science (GPA: 3.22)** **December 2023**
  Purdue University, Fort Wayne, Indiana
  Related Course: Cryptography and Network Security, High Performance Computing, NLP, Game Design Core Skills

- **Bachelor of Computer Engineering (GPA: 3.55)** **August 2019**
  Modern Education Society's College of Engineering, Pune, India
  Related Course: Machine Learning, Data Analytics, Distributed Systems, Cloud Computing, AI and Robotics

PROJECTS

- **Backup Device Index Comparison for PWL** **August 2023 – Present**
  - Generated device listings from Oxidized, Rancid, Solarwinds, Prime, and XMC and checked them against a list of active devices from LibreNMS to discover things that are not backed up.
  - Sanitized the data before comparison.
- **SNMPv3 upgrade over IOS_XE host list** **June 2023 – Present**
  - Phase 1: Developed Python script to update the SNMP versions of devices on LibreNMS. Tested the Python script with several edge cases.
  - Phase 2: Created an Ansible script to upgrade over IOS_XE and Once IOS_XE is a success, implement it on all the campuses.
- **Determine the Mood of a Spotify Song through Lyric Classification** **January 2023 – May 2023**
  - Developed an AI model to classify the mood of Spotify songs based on lyrics using natural language processing techniques. Leveraged Spotify's 'valence' ratings to train the model, achieving up to 85% accuracy.
  - Platform – Keggle, Language – Python 3.11.3, Tensorflow, BERT

LEADERSHIP AND PUBLICATIONSS

- Senate Parliamentarian for Student Government Association at Purdue University Fort Wayne
- Volunteered for SWE's 18th annual banquet as a student organiser in 2022
- A Brief Review of Phishing Detection and Prevention Methods, Volume 3, Issue 11, (December-2018) (IJSDR)
- Won Best Paper Presentation at the 7th National Conference on RECENT ADVANCES IN COMPUTER ENGINEERING [[RACE-2019]