PRASHANT TOMAR

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Technical Skills

- **Languages:** Python, JavaScript, HTML5, ReactJS, SQL, Node.js, d3.js, Vega-lite, Tailwind CSS
- **Technologies** Git, REST API, NumPy, Pandas, Flask, PyTorch, NLTK, scikit-learn, Terraform, TensorFlow, , Figma, Tableau, Power BI, MemGator, Conifer, ReplayWeb.Page, Material-UI
- **Developer Tools:** Visual Studio Code, Postman, Apache Server, IntelliJ IDEA, MySQL Workbench, Docker, Kubernetes
- **Other Skills:** AWS(EC2,S3, RDS), DevOps (Agile Principles), Google Tag Manager (GTM), Google Analytics

Professional Experience

IT ANALYST   **May 2023 - Present**
SEES ODU   *Norfolk, United States*

- Developed automation scripts using Python and PowerShell, streamlining IT workflows and reducing service delays by 20%.
- Managed AWS cloud services and virtual machines (VMs), optimizing infrastructure efficiency by 25% through resource provisioning and performance tuning.
- Provided technical support for 500+ IT resources, achieving a 95% issue resolution rate and upgrading 200+ devices with zero downtime.

RESEARCH ASSISTANT   **Aug 2022 - Dec 2022**
ITS ODU   *Norfolk, United States*

- Led the development of 'online.odu.edu' by utilizing React.js for the frontend, Node.js for the backend, and MySQL with RDS hosting, creating a dynamic and scalable web platform.
- Deployed and managed applications across multiple platforms, including GitHub, GitLab, and AWS EC2 with services like S3, Route 53, RDS, Nginx, and GoDaddy DNS, ensuring smooth application performance and availability.
- Developed backend solutions with structured MySQL database models, supporting efficient data management and driving the success of several lab projects.

Network Engineer   **Mar 2015 - Jul 2022**
Corporate Infotech Pvt. Ltd.   *Delhi, India*

- Led the transition from manual network troubleshooting to data-driven insights, developing custom dashboards (React, D3.js) for real-time analytics.
- Introduced CI/CD pipelines (Jenkins, GitHub Actions) to streamline deployment of network automation tools.
- Championed the adoption of cloud-based networking solutions (AWS/GCP), modernizing infrastructure and reducing costs.

Projects

Web Server Design using HTTP 1.1   **Aug 2022 - Dec 2022**

- Engineered a fully HTTP/1.1-compliant web server using Python, deployed in Docker containers, and optimized with load-balancing techniques, ensuring reliable request handling and performance under remote testing.
- Managed project workflows for the HTTP server project via GitHub, conducting code reviews and rigorous testing, ensuring high-quality deliverables within a team environment.

Modelling Public Mood to Detect Events   **Jan 2023 – May 2023**

- Engineered a deep learning model to analyze 75,000 tweets related to the Sri Lanka riots, achieving 90% accuracy using OpenAI's GPT and BERT, and contributing to NLP research on event detection.
- Utilized the Twitter API to collect tweets from a specific time frame, applying BeautifulSoup and Pandas for efficient web scraping and data preprocessing, reducing processing time by 30%.
- Implemented sentiment analysis to detect key events, using a neural network architecture that incorporated embedding layers, CNN and GRU, achieving 75% accuracy, validated through precision metrics and visual evaluations.

Computer Vision Analysis of TikTok Videos on Coyote Migration **Jan 2023 - Dec 2023**

- Extracted and analyzed text from TikTok videos using OCR (Tesseract), SpaCy, and NLTK, applying clustering techniques to categorize themes and trends.
- Translated multilingual text using Google Translate API, enabling deeper insights into messages embedded in the videos.
- Performed color detection analysis with OpenCV and K-Means clustering, identifying visual patterns in video frames for further investigation.

Education

Master of Science, Computer Science   **GPA: 3.85/4.0**
Old Dominion University, Norfolk, VA   *Aug 2022 – May 2024*

Bachelor of Technology, Computer Science and Technology   **GPA: 7.1/10.0**
Maharshi Dayanand University, Rohtak, India   *July 2010 – July 2014*

Awards

- **3rd Place - Hampton Roads Datathon 2022 | Geospatial analysis of wetlands conservation**
- **3rd Place - Hampton Roads Datathon 2023 | School wellness prioritization**