KANAD NALESHWARKAR

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EDUCATION

Virginia Tech, Blacksburg, VA | **Jan 2023 – Dec 2024 (Expected)**
Master of Engineering, Computer Science and Applications
GPA: 3.7/4.0
Relevant Courses: Advanced Machine Learning, Info Storage and Retrieval, Software Engineering

Savitribai Phule Pune University, Pune, India | **Aug 2016 – May 2020**
Bachelor of Engineering in Computer Engineering
GPA: 7.5/10.0
Relevant Courses: Machine Learning, Data Analytics, Operating Systems, Data Structures and Algorithms

TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript, SQL, LaTeX
Frameworks: Flask, Spring Boot, React, Node.js, PyTorch, TensorFlow, scikit-learn, Hugging Face, Jupyter, OpenCV
Tools/Platforms: AWS (EC2, S3, ECR, SageMaker), OpenSearch, Elasticsearch, Kafka, Git, Maven, Docker, Kubernetes, Helm, Jenkins, Kibana, Terraform, PostgreSQL, MySQL, Postman, Anaconda, ChatGPT API

EXPERIENCE

Hansen Technologies, Pune, India | **May 2023 – Aug 2023**
Software Developer (Consultant)
- Engineered a robust bulk order processing tool utilizing **OpenSearch** technology, enabling efficient retrieval and reprocessing of failed telecom orders.
- Leveraged prior experience to write comprehensive training modules and detailed documentation for new hires, shortening their training period by 50%
- Collaborated with a team of support analysts to draft Standard Operating Procedures (SOPs) that optimized troubleshooting processes, resulting in enhanced productivity and streamlined operations.

Hansen Technologies, Pune, India | **Nov 2020 – Dec 2022**
Software Developer
- Led the development of **REST APIs** written in **Java** to enable communication between the service provisioning product and ground telecom components, tailoring solutions to meet specific client needs.
- Handled the complete containerization process of microservices using **Docker**, orchestrating seamless container management and scaling through **Kubernetes** across multiple nodes.
- Spearheaded the establishment of robust CICD pipelines with **Jenkins**, automating the deployment process on **AWS** and reducing the deployment time by 75%

PROJECTS

Electronic Theses and Dissertations Classifier | **Aug 2023 – Jan 2024**
Trained and deployed a document classifier model for an information retrieval system managing 500k scientific documents. Also developed a standalone app to perform experiments. Used **Streamlit** for frontend and **PostgreSQL** to store data. Deployed this app on the university's high-performance computing server to utilize GPU computing and get faster inference.

Evaluating Cross-Modal Retrieval Performance of DiHT Model on Conceptual Captions Dataset | **Jan 2023 – May 2023**
Evaluated Meta's DiHT model on Google's Conceptual Captions dataset, assessing its performance in both image-to-text and text-to-image retrieval tasks. Effectively utilized several instances of Google Colab and Kaggle **Jupyter notebooks** to speed up the evaluation.
GitHub Repo

RepoRanger | **Jan 2023 – May 2023**
Implemented a seamless integration of GitHub and Discord APIs in **JavaScript**, empowering team members to effortlessly manage their GitHub project repository, streamline CI/CD pipelines and track issues—all within a unified and efficient Discord channel environment.
GitHub Repo

PUBLICATION

A Comparative Study of Various Key-Point Detector-Descriptor Algorithms for Augmented Reality Applications | **May 2020**
International Conference on Emerging Trends in Engineering and Technology (ICETET), Nashik
Paper Link

INVITED TALK

Webinar on Innovative and Collaborative Approaches for Scaling Capstone Projects | **Aug 2022**
Modern Education Society's College of Engineering, Pune
Introduced undergraduate students to various approaches for scaling capstone projects. Covered concepts on REST APIs, Docker, Kubernetes and Jenkins. Webinar Recording