Om Pandey

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CAREER SUMMARY:

Results-oriented Software Engineer with 3 years of experience in managing and optimizing cloud-native application platforms using automation and containerization. Seeking a full-time Machine Learning role to leverage technical expertise and contribute to innovative projects. Skilled in machine learning, with a strong foundation in algorithms and data analysis.

SKILLS:

Core:	Machine Learning, Scripting, Automation
Languages:	Python, Java, SQL
Python tools:	Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn
Containerisation:	Kubernetes, Docker
Cloud:	Amazon Web Services, AWS EKS, vSphere, GoVC, Google Cloud Platform (GCP)
Automation:	Ansible, Terraform, Jenkins

EDUCATION:

University of Petroleum and Energy Studies **June 2018 - May 2022**

Bachelors in Technology - Computer Science Engineering, with Specialization in Artificial Intelligence and Machine Learning

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WORK EXPERIENCE:

Capgemini

Professional - 1 Software Engineer **July 2023 - Present**

Developed our project's CI/CD pipeline using Gitlab CI and Jenkins to automate the merging of code into git and deploying it to a test environment for QA (Quality Assurance) testing.

Migrated on-premise Kubernetes environment to AWS Elastic Kubernetes Service, optimizing resource utilization and enhancing scalability by 40% and reducing security vulnerability incidents by 50%.

Leveraged Ingress controllers and AWS NLBs to manage external and internal traffic, reducing costs by over 80% through targeted optimization of Target Group Bindings.

Accelerated edge deployment through Ansible automation, troubleshooting and resolving issues to achieve an 85% reduction in failure rates.

Streamlined application deployment by converting diverse Docker service packages into a unified Docker Compose file, facilitating seamless integration into our platform.

Capgemini

Associate - 2 Software Engineer **June 2022 - June 2023**

Successfully migrated a complex Kubernetes environment from version 1.18 to a newer, supported version, ensuring uninterrupted service and optimized performance and reduced resource consumption by 33%

Collaborated with cross-functional teams to implement and manage multiple Kubernetes Container Networking Interfaces (CNI) solutions, including Calico, Kube-OVN, and Cilium, to optimize network topology and security.

Spearheaded a Proof of Concept (POC) to migrate on-premise, self-managed Kubernetes clusters to AWS, evaluating the feasibility and benefits of cloud adoption.

PERSONAL PROJECTS:

Machine Learning using OOPS concepts

Developed and implemented K-Means clustering and KNN classification algorithms in Python, applying foundational mathematical principles.

Employed object-oriented programming (OOP) paradigms, including encapsulation, polymorphism, and inheritance, to create a robust and maintainable codebase for effective data analysis and model deployment.

Published Research Paper on Mushroom Classification

Conducted a comprehensive comparative analysis of 14 Machine Learning algorithms, evaluating performance metrics such as accuracy, precision, and F1-score.

Presented research findings at the 12th International Conference on System Modeling and Advancement in Research Trends (SMART) 2023.

An IEEE Publication - https://ieeexplore.ieee.org/abstract/document/10428619