Om Pandey

ompandey.jkp@gmail.com | www.linkedin.com/in/ompandey99 | https://github.com/Pandey23000Om | +91 7239051326

SKILLS:

Core:	Machine Learning, Deep Learning, Data Science, Model Deployment, Scripting, Automation
Languages:	Python, Java, SQL
ML Libraries:	Scikit-learn, Pandas, NumPy, Tensorflow
Cloud & DevOps:	AWS (EKS), GCP, Docker, Kubernetes, Terraform, Ansible
Databases:	MySQL, PostgreSQL, MongoDB
Visualization Tools:	Matplotlib, Seaborn, Power BI

WORK EXPERIENCE:

Capgemini

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

Developed project's CI/CD pipeline using GitLab CI to automate package creation and enable code-scanning

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

Deployed AI applications 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 while reducing resource consumption by 33%.

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

EMA Solutions Pvt. Ltd.

Machine Learning Engineer - Intern   **June 2021 - July 2021**

Cleaned time-series data using Python scripts incorporating statistical analysis techniques such as outlier removal, handling missing values, and feature scaling.

Used ARIMA models to predict future power requirements for different states in India, improving forecasting accuracy by 20%.

EDUCATION:

University of Petroleum and Energy Studies

B.Tech in Computer Science Engineering, Specialization in Artificial Intelligence and Machine Learning   **June 2018 - May 2022**

Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Data Mining, Big Data Analytics

PERSONAL PROJECTS:

Machine Learning using OOP Concepts

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

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

EDA and Survivor Predictions on the Titanic Dataset

Cleaned the dataset by handling missing values using imputation techniques, encoding categorical variables, and scaling numerical features.

Conducted exploratory data analysis (EDA) using Seaborn and Matplotlib to identify survival correlations based on age, gender, fare, and class.

Compared classification models such as Logistic Regression, Random Forest, XGBoost, and Neural Networks to improve prediction accuracy.