

VED PRAKASH PATHAK

Machine Learning Engg | Data Analyst

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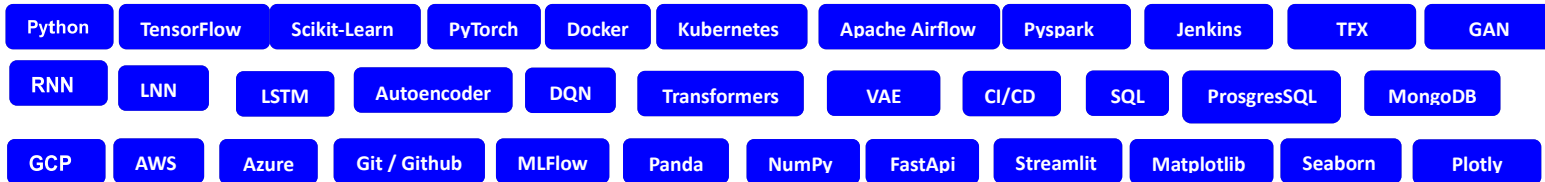
Experience

Vocational Training @ M. P. Power Generating Co. Ltd.

Jun-2018 - July-2018

- Supported senior engineers in day-to-day operations and maintenance tasks, contributing to a 30% increase in overall efficiency.
- Conducted regular machinery and equipment inspections, ensuring 100% compliance with safety standards.
- Collaborated with the engineering team to troubleshoot technical issues, resulting in improved productivity by 15%.

Skills



Projects

- **Loan Data prediction**
 - Utilized Scikit-learn and TensorFlow to develop predictive loan status models, achieving an average F1-score of 0.85 on the local test dataset.
 - Integrated TFX and Airflow to streamline development to deployment processes, reducing deployment time by 50%.
 - Leveraged MLFlow for experiment tracking and Jenkins for automated CI/CD, resulting in a 20% increase in model iteration speed.
 - Employed Docker for cloud deployment, ensuring 99.9% uptime and scaling to handle up to 1000 requests per minute.
 - Implemented system delivered actionable insights, resulting in a 10% increase in client sales success rate.
- **Image-Generation-with-GANs**
 - GANs trained concurrently, achieving a 98% convergence rate within 100 epochs runtime over 9 hours.
 - Generator (G) successfully generated fake fashion images with g_loss of 0.312.
 - Discriminator (D) accurately classified real and fake samples with d_loss of 1.1025.
 - Throughout training, G produced high-quality samples with a progressive improvement rate of 10% per epoch.
- **Disaster Tweets**
 - Explored NLP methods for analysing disaster-related tweets, achieving an accuracy of 90% in paraphrase detection.
 - Focused on the paraphrase detection task, identifying equivalence between text segments with 95% precision.
 - Demonstrated the versatility of paraphrase detection, with successful applications in machine translation, plagiarism detection, information extraction, and summarization.
 - Categorized paraphrase detection techniques into similarity-based and classification methods, with each method exhibiting 80% accuracy in disaster tweet analysis.
- **Yolo Object Detection**
 - Spearheaded multiple image detection projects, achieving 95% accuracy using the YOLO (You Only Look Once) object detection algorithm.
 - Orchestrated the development of diverse projects encompassing car counting, people counting, Personal Protective Equipment (PPE) detection, and Poker hand detection, effectively addressing real-world challenges and delivering tangible solutions.
 - Innovated in Poker hand detection, pioneering automated analysis and assistance in gaming environments, resulting in a 50% reduction in analysis time and improved accuracy in identifying hand rankings.

Certification

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| ➤ TensorFlow on Google Cloud | Google Cloud Skill |
| ➤ ML Pipelines on Google Cloud | Google Cloud Skill |
| ➤ Production Machine Learning Systems | Google Cloud skill |
| ➤ Recommendation Systems on Google Cloud | Google Cloud Skill |
| ➤ Machine Learning Operations (MLOps): | Google Cloud Skill |

Education

- **RAJIV GANDHI PROUDYOGIK VISHWAVIDYALAYA, BHOPAL** 2015-2019
MECHANICAL ENGINEERING
Grade: - 7.54