DEEPAK YADAV

Consultant at Sony (AI and Machine Learning)

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SUMMARY

Experienced AI and ML Consultant with over 5+ years of dynamic roles, including a significant tenure at Sony. Proven in edge AI, and model development. Expert in TensorFlow, and PyTorch. Bringing innovation and technical excellence to dynamic teams.

SKILLS

Languages: Python, SQL, JavaScript, C++, C.
Technologies: AWS, Docker, Kubernetes, MLflow, Kubeflow,Tensorflow, PyTorch, React.js, Django, Flask, Flutter, Hugging-face, Keras, NLTK

EXPERIENCE

Jun 2021 - Present **Consultant**   **Sony, Bengaluru, Karnataka**
- Spearheading the Esensor project, leading edge AI implementation using Sony's IMX500 device.
- Steering the development and deployment of AI models for the SFAID project, showcasing automation in industrial packaging applications.
- Conducting comprehensive analysis to optimize model performance, ensuring streamlined inference processes.
- **Tools:** `Python, Computer Vision, TensorFlow, PyTorch, Streamlit, Django, React-js, SQLite`

Dec 2019 - Apr 2021 **Associate Data Scientist**   **Activa Inc., Hyderabad, Telangana**
- Led the development of an innovative AutoML platform, automating the entire model selection and training process.
- Contributed significantly to the AutoML pipeline's design, particularly in hyperparameter selection using genetic algorithms.
- **Tools:** `TensorFlow, Scikit-learn, Python, Docker, Flask, AWS EC2, REST, CI/CD.`

Aug 2019 - Dec 2019 **Data Science Intern**   **Activa Inc., Hyderabad, Telangana**
- Developed a computer vision model using Mask-RCNN for detecting internal cracks within aircraft engines.
- Leveraged deep learning techniques to create a highly accurate and efficient solution for crack detection.
- **Tools:** `Computer Vision, Object Detection, Mask-RCNN, Python, TensorFlow, OpenCV.`

Jul 2018 - Jun 2019 **Postgraduate Researcher**   **IIEST Shibpur, Howrah, WB**
- Conducted in-depth studies on various fault-detecting methods in Wireless Sensor Networks (WSNs), including statistical-based and machine learning-based approaches.
- Developed an innovative algorithm for detecting faulty nodes in Wireless Sensor Networks (WSNs).
- **Tools:** `Statistics, Wireless Sensor Networks, Arduino, Wireless Networking, Python, Machine Learning.`

OPEN SOURCE PROJECTS

Generative AI **Text to Image Generation using Stable Diffusion**   **link**
High-performance image generation using Stable Diffusion in KerasCV.

LLM **LLM Based Custom Pdf Chatbot**   **link**
Streamlit web application designed to facilitate interactive and context-aware conversations with users based on the content of PDF documents.

Wireless Network **WSNFault**   **link**
Statistical fault detection algorithm for Wireless Sensor Networks (WSNs).

EDUCATION

Aug 2017 – Jun 2019 **Indian Institute of Engineering Science And Technology, Howrah, WB**   **Master of Technology in IT**
Relevant Coursework: Machine Learning, Algorithms, Information and Coding Theory, Advanced Database Management System.
GPA: 7.0/10.0

Aug 2010 – Jul 2014 **United College of Engineering and Research, Allahabad, UP**   **Bachelor of Technology in ECE**
Relevant Coursework: Signal and Systems, Microprocessors, VLSI Design and Embedded System.
GPA: 6.8/10.0

LANGUAGES

English - B2+, **Hindi** - native