

Hemant Kumar Das
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CAREER OBJECTIVE:

To contribute effectively in a challenging work environment, leveraging my expertise in Artificial Intelligence, Natural Language Processing, and Generative AI as an AI Engineer. Utilizing acquired knowledge and technical skills to foster growth within the organization.

PROFESSIONAL SUMMARY:

- Four years of experience in Data Science and Artificial Intelligence.
- Proficient in Python, Machine Learning Algorithms, Data Analysis.
- Skilled in leveraging data-driven insights for business decision-making.
- Strong analytical abilities and a passion for problem-solving.
- Experience of Good Client Interaction and to deal with their requirements.
- Consistently updating self with emerging trends in the industry.

EXPERIENCE SUMMARY:

<i>Organization</i>	<i>Designation</i>	<i>Duration</i>
Cropin Technology Solutions Pvt Ltd. Bengaluru	Junior Data Scientist	Apr 2020 – Present
Central Tool Room and Training Center, Bhubaneswar	Graduate Engineer Trainee	Dec 2014 – Mar 2017

EDUCATION:

<i>Institution</i>	<i>Class</i>	<i>Percentage</i>
Post Graduate in Tool Engineering(CAD/CAM)	2014	68
B.TECH (MECH) IN Biju Pattnaik University of Technology, ODISHA	2014	61
Council Of Higher Secondary Education, ODISHA	2008	44
Board of Secondary Education, ODISHA	2006	54

TECHNICAL SKILLS:

Languages	Python(3.6 and above), SQL(MySQL), NoSQL(MongoDB)
Technical Skills	Project-Repository-using-GitHub, Machine-Learning-and-Deep-Learning_Model_Deployment_using_AWS_&_GCP, CI-CD-Pipeline-using-GitHub-Action, Project-Virtualization-using-Docker, GUI-using-Tkinter
Softwares	Visual Studio Code, PyCharm, Jupyter Notebook, Google Colab
Platform	Windows, Linux

PROJECT DETAILS:

PLANT_LEAF_DISEASE_CLASSIFICATION_USING_CNN_WEB-APP_AND_MOBIE-APP

Project Duration: July 2020 to Contd.

Description:

- Developed a Proof of Concept (POC) for Plant Leaf Diseases Classification using Convolutional Neural Networks (CNN) in both web and mobile applications.
- Utilized TensorFlow for model building, data augmentation, and tf dataset management.
- Employed FastAPI and TensorFlow Serving for backend server operations and ML Ops.
- Implemented model optimization techniques such as quantization and TensorFlow Lite for efficient deployment.
- Frontend developed using React JS for the web application and React Native for the mobile application.
- Deployed the project on Google Cloud Platform (GCP).

Technical Stack:

- **Model Building:** TensorFlow, CNN, data augmentation, tf dataset
- **Backend Server and ML Ops:** TensorFlow Serving, FastAPI
- **Model Optimization:** Quantization, Tensorflow Lite
- **Frontend:** React JS (Web Application), React Native (Mobile Application)
- **Technical Modules:**
 - tensorflow==2.5.0, fastapi, uvicorn, python-multipart, pillow, tensorflow-serving-api==2.5.0, matplotlib, numpy
- **Deployment:** GCP (Google Cloud Platform), GCF (Google Cloud Functions)

Responsibilities:

- **Model Development:** Continue to refine and improve the plant leaf disease classification model using CNNs, TensorFlow, and data augmentation techniques.
- **Backend Management:** Oversee the backend server operations using FastAPI and TensorFlow Serving for efficient ML Ops.
- **Model Optimization:** Implement and explore further model optimization techniques such as quantization and TensorFlow Lite to enhance deployment efficiency.
- **Frontend Development:** Collaborate on frontend development using React JS for the web application and React Native for the mobile application.
- **Deployment and Maintenance:** Ensure smooth deployment and maintenance of the project on Google Cloud Platform (GCP) and Google Cloud Functions (GCF).

DECLARATION:

I, Hemant Kumar Das hereby declare that the above particulars are true to the best of my knowledge and belief.

Date :

Place : Bengaluru

(Hemant Kumar Das)