Ojas Patil

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EXPERIENCE

AWS Cloud Architect: AICTE Virtual Intern **Jan. 2024 - Present**

- Designed and implemented scalable and cost effective cloud solutions using AWS services such as EC2.
- Analyzed problems and developed solutions.
- Successfully deployed website in cloud.

ML executive: Google DSC PCCOE: **Sep. 2023 - Present**

- Organizing and overseeing events focused on machine learning and deep learning.

Social Media Marketing: International Relations Cell **Sep. 2023 - Present**

- Currently serving as a social media marketing member, actively promoting awareness about higher education among students and coordinating informative sessions on the subject.
- Orchestrated logistics and crowd management for "Know Japan-2023", ensuring a smooth attendee experience.

EDUCATION

PCET Pimpri Chinchwad College of Engineering **Pune, India**
B. Tech: Information Technology **Nov. 2022 – Present**
CGPA: 8.38 / 10

PROJECTS

Bitcoin Price Prediction
Developed a Python-based deep neural network to forecast the closing price of Bitcoin by day's end. Employed ReLU activation and the Adam optimizer during training, evaluating prediction accuracy through sklearn's R2 score, achieving a score of 99.43%.

Housing Prediction
Constructed a regression model both from scratch and utilizing the sklearn's linear regression library. The model was designed to assess the accuracy of housing price predictions using noisy data incorporating features such as the number of bedrooms, lot size, etc. Achieved an R2 score of 53.47% for the model built from scratch and 53.5% for the model constructed using the sklearn Regression library.

Plant image Classification
Developed a Deep Convolutional Network using TensorFlow to classify plant images into 40 distinct classes. Implemented data augmentation to address data scarcity and trained the model with a structured architecture comprising three convolutional layers
(Conv-Pool-Conv-Pool-Conv-Pool-Fully-connected). Additionally, applied transfer learning using the VGG16 architecture. Achieved an accuracy of 78% without transfer learning and 96% with transfer learning.

KYC Registration Chatbot
Developed a chatbot designed to address user queries concerning KYC (Know Your Customer). Implemented BERT as a transformer architecture and trained the model using the Stanford Question Answering Dataset (SQuAD).

BMI Classifier
Developed a machine learning model to predict the weight class of individuals, incorporating a random forest approach based on factors such as age, height, and weight. Trained the model using the sklearn Random Forest Classifier on a Kaggle-imported dataset. Additionally, employed a Deep Neural Network (DNN) architecture for training, utilizing ReLU and Softmax activation functions, along with the Adam optimizer.

SKILLS

Computing Languages: Python, C, R
Machine Learning Libraries: NumPy, Pandas, Matplotlib, SK-learn
Deep Learning Platform: TensorFlow, PyTorch
Language: English, Hindi, Marathi