Tanuj Dikonda

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EXPERIENCE

World Bank Group - Washington, DC - *Web Administrator* Oct 2015 - Present

- **Cloud Automation** → Automated infrastructure & application provisioning on AWS & Azure using CI/CD tools like Terraform, Python & Jenkins reducing application deployment from 2-3 days to 4-5 hours.
- **Data Visualization** → Built Splunk Dashboards for Enterprise Wide Applications to provide insights into application performance, configuration, statistics & help in troubleshooting issues.
- **Project Management** → Successfully facilitated the development, evaluation & execution of different cross departmental application projects from conception to delivery.
- **Application Delivery** → Delivered on-premise applications running on different technologies like F5, Docker, JBoss, IIS, .NET, SQL.
- **Web Application Firewall (WAF) Migration** → Successfully migrated WAF from Citrix to F5 ASM which offers better security & reliability for public applications.

PROJECTS

- **Neural Machine Translation** → Created a Neural Machine Translation Model which translates English sentences into Marathi language sentences.
- **Text Classification [live | code]** → Showcased different text classification techniques using CNNs; Embeddings + CNNs; Multi-Channel CNNs; Bidirectional LSTMs; Attention Mechanism and Transformers to gain 80-90% accuracy on different text classification datasets.
- **Hand Emojinator [live | code]** → ML model predicts Hand Emoji filters on a video stream similar to Instagram & Snapchat filters. Increased model accuracy by 20% by using Transfer Learning.
- **Generative Adversarial Networks (GANs)** → Tried emulating the concept behind deepfakes with different types of GANs like CycleGAN, Pix2Pix GAN, AC-GAN, cGAN, DC-GAN using Keras.
- **Text Summarization** → Performed extractive method of Text Summarization using Natural Language Processing (NLP) libraries like spaCy, Gensim & Sumy.
- **Time Series Forecasting** → Implemented Time Series Forecasting using Recurrent Neural Networks (RNNs) & Long Short Term Memory (LSTM) on S&P 500 Index.

SKILLS

- **Programming Languages** → Python, SQL, Tcl.
- **ML Libraries** → Keras, TensorFlow, OpenCV, spaCy, NLTK, Gensim, Numpy, Pandas, Matplotlib, Scikit-Learn, Seaborn, Plotly.
- **Technologies** → AWS, Microsoft Azure, Terraform, Jenkins, Linux/Unix, F5 BigIP, WAF, Splunk, PRTG, DNS, Certificate Management, PySpark.
- **Concepts** → Machine Learning, Deep Learning, Neural Networks, Data Science, Recommender Systems, Natural Language Processing (NLP), Computer Vision.

CERTIFICATIONS

- **AWS Certified Solutions Architect (Associate)**
- **Cisco Certified Network Associate (CCNA)**

EDUCATION

California State University, Los Angeles Sept 2013 - Jun 2015

MS in Electrical & Computer Engineering