Bhavna Gargate

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Summary

IT experience as a Consultant and Team Leader with a total of over 10 years in varied areas in the industry and newly acquired Artificial Intelligence and Machine Learning skills with working knowledge of Supervised and Unsupervised Learning, Ensemble Techniques, Neural Networks, Computer Vision and Natural Language Processing.

Main area of expertise is in Development, Testing, Maintenance, UAT/Production Support and Project Coordination of Mainframe applications in Banking and Finance Domain. Experience in products like Credit Cards and International Payments and working knowledge of various AI and ML based Classification and Regression techniques which can be applied across domains.

Skills

- **Programming Languages:** COBOL, Python
- **Scripting Language:** JCL
- **Database Language:** SQL(IBM-DB2)
- **Technologies:** Mainframes, Artificial Intelligence, Machine Learning
- **Other Tools:** Changeman, Endevor, SPUFI, VSS, File-Aid, Quality Centre
- **Other skills:** Supervised Learning, Unsupervised Learning, Ensemble Techniques, Neural Networks, Computer Vision and Natural Language Processing

Professional Experience

Mastecard, Pune *- Consultant*

May 2015 – June 2018

- Maintenance of Mastercard's in-house Mainframe based test tool Member Host Emulator using COBOL and DB2 components. The tool acted as Acquirer and Issuer for Core Authorization and Clearing system integration testing and testing with partner banks. The role included making configuration and code changes as per the requirements.

Zensar Technologies Limited, Pune *- Team Leader*

June 2011 - June 2012

- Managed a team of 10 people on a technology migration project. The role included interacting with business users to understand requirements, maintaining the project documents and reports, Defect management, team coordination and task allocation.

Oracle Financial Software Services Limited., Pune *– Mainframes Developer and Project Coordinator*

August 2007 - March 2011

- Maintenance and Production support of International Mass Payments System for western European countries for a leading bank in UK.
- The system comprised of COBOL, JCL, CICS and VSAM components based on Mainframes.
- Analyzed the code depending upon the change requests, updated the code, tested it and supported the UAT and later in production.

Infosys Technologies Limited, Pune *– Mainframes Developer*

September 2004 – August 2007

- Maintenance and Production support of Merchant Payables System and Terminal Sharing Fee System for a leading Credit card network.
- Both these systems comprised of COBOL, JCL and DB2 components based on Mainframes.
- Development and testing of a GUI for capturing the loan applicant verification data for a leading bank as a part of USA Patriot Act using a proprietary tool provided by the client.

Academic Projects

Capstone project: Pneumonia Radiograph Diagnosis using CNN

- Designed, trained and tuned a CNN classifier to detect pneumonia with the X-ray images.
- Designed, trained and tuned a Masked RCNN model using pre-trained Mobilenet model with up-sampling layers to create U-net architecture to identify the pneumonia infected area in the X-ray images.

Sequential Natural Language Processing

- Designed, trained and tuned a sequential classifier and a Bidirectional LSTM classifier for text classification and sentiment analysis using GloVe embeddings.

Advanced Computer Vision - Object Detection and recognition

- Designed, trained and tuned Masked RCNN Face detection model using pre-trained Mobilenet model with up-sampling layers to create U-net architecture
- Used 'haarcascade_frontalface_default.xml' for face detection on the input images provided and extract the face coordinates and number of faces present in an image.
- Designed a Face detection CNN to create Image embeddings using VGG face weights and multiple images of same person. Using these Embeddings as input, designed a Support vector classifier to identify the person labelled in the image. Used PCA for dimensionality reduction.

Neural Networks and Deep Learning

- Designed, trained and tuned a sequential neural network model to predict the signal strength of electronic communication device
- Designed, trained and tuned a sequential neural network model to scan the images to identify numbers on the images

Academic and Professional Qualifications

- **Great Lakes Executive Learning – AI and ML, Online** *– Post Graduates Program, March 2023 - April 2024*
- **Lakshmi Narain College of Technology, Bhopal** *- Bachelor of Engineering (Information Technology), June 2003*
- **S.V. Polytechnic, Bhopal -** *Diploma in Electronics and Telecommunication Engineering, June 2000*