ABISH JAYARAM

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PROFESSIONAL SUMMARY
- Working in the technology space since 4+ years with an expertise in architecting, building and deploying AI solutions for problems in Banking, Telecom, Manufacturing and Supply Chain.
- Research and literature survey on multiple verticals of Deep Learning like explaining ability, network architecture search, augmented networks and domain learning
- Lead multiple teams onsite and offsite for different products from initiation to planning and execution

RELEVANT COURSEWORK
Machine / Deep Learning, Data Science, Optimization, Predictive Analytics, Distributed Computing, Data Structures and Algorithms, Cloud computing

WORK EXPERIENCE

Artificial Intelligence Engineer – Razorthink (Bangalore, India) Oct 2017 – present
- Crafted a state of the art solution for real-time human like quality control in an industry assembly line which reduced their operation cost by up to 80%.
- Created a resume screener product for a client's HR team which reduced their operation time for screening from 45 days to 6 hours.
- Research and Literature survey on cutting edge methodologies like Language Understanding models (BERT), Memory Augmented Networks, Domain Learning

Deep Learning Engineer – Razorthink (Bangalore, India) July 2015 – Sept 2017
- Built a real-time video analytics system to monitor and alert for ATM skimming, saving the Bank's money and avoiding the fraudulent transactions.
- Built a state of the art Deep Learning solution for customer churn, segmentation and product buying propensity for different Banking and Telecom clients.
- Built an automated framework for experimentation and selection of network architectures helping a faster and stable solution in half of the time.

SKILLS
- **Neural Networks**: Feedforward Networks, Convolutional Networks, LSTM, Auto Encoders, DBN, RBM, MANN, Attention Networks, Transformers and GAN
- **Programming Languages**: Python, Java and BASH
- **Frameworks and Libraries**: Tensorflow, PyTorch, Pandas, Falsk, Sklearn, OpenCV, Spacy, OpenIE and Matplotlib
- **Databases**: MySQL and MongoDB
- **Big Data Technologies**: Hadoop, Kafka, Spark, Distributed Tensorflow and Horovod
- **Infrastructure**: Linux, Docker and Kubernetes
- **Domains**: Computer Vision, NLP and Predictive analytics for Banking, Telecom, Manufacturing and Supply Chain

EDUCATION

Bachelor of Engineering in Computer Science, FCD, Aug 2011 – Jun 2015
NIE Institute of Technology, Mysore, India

PROFESIONAL PROJECTS

- **Automated quality control in manufacturing industries**
  A computer vision system for quality control of a specific product by training the model with very few good images yet providing human like quality control.
- **Intelligent resume screener**
  An NLP product to crunch down a huge corpus of candidate resumes to most relevant for a specific role saving the manual effort of going through each of them.
- **Video surveillance for ATM skimming**
  A CV based real time video analytics system deployed on an edge device to monitor the ATMs, interpret for any skimming activities and send alert signals.
- **Customer micro segmentation**
  Creating small segments from 300 million customer base to understand the behavior of each segment and plan campaign by measuring their sensitivity and stickiness.
- **Product propensity and churn prediction**
  Deep Learning based feature extraction from transactions history and predicting the propensity to buy a product or churning in a certain period.

RESEARCH

- **Model Explaining ability**
  Designed and developed a "Human-Machine Interoperable Model" (HMI Model), a multi-model architecture to derive explanations for a deep convolutional model.
- **Funneled model curation**
  Curating the best model architecture from a large set of experiments using a funneling architecture driven by the problem's domain knowledge.
- **Hybrid Auto Tuner**
  Tuning the model parameters with a good trade-off between exploration and exploitation using a hybrid scheme from grid based search and Bayesian techniques.

PUBLICATION

- **GAPS – GPS based Automated Profile switcher and Activity Manager for Android**
  Publication: www.ijedr.org/viewfulltext.php?&p_id=IJEDR1502054 , May 2015

AWARDS & INTERESTS

- Been part of state level science conference held by KRVP (Karnataka Rajya Vignana Parishad) under the guidance of Bharat Ratna Dr. CNR Rao.
- Keen towards presenting technical aspects and good at managerial grounds.