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Vikram Iyer

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Research

Research Fellow **IIIT, Hyderabad** **Dec 2017 - Present**

- Working on a problem to build a complete pipeline for text to speech conversion for regional Indian languages for people with print disabilities using daisy formats
- My current assignment is developing the web portal where manual intervention is required by the moderator to correct the mistakes done by the text detection, segmentation, etc modules; and getting myself comfortable with Deep Learning
- The project include two subsections: Optical Character Recognition (OCR) and Text To Speech (TTS)
- Once the web portal is live, my research work will be focused on improving TTS for regional Indian languages like Telugu, Tamil, Marathi, Gujarati, etc

International Fellow **Fast.ai (part 1)** **Oct 2017 - Dec 2017**

- Creating SOTA models for Computer Vision, NLP, and Recommendation Systems with PyTorch
- Roles of neural network components like input, architecture, output, loss functions, optimization, regularization, and testing and how to apply them using pytorch to achieve SOTA results
- Other practical tips and best practices to get better results and how to fine tune networks

Employment

Software Development Engineer II **Sokrati** **May 2016 - March 2017**

- Designed, developed and maintained end-to-end pipeline for “Deployment Framework” that benefited all the developers across the organization to deploy various services and applications to production with single click
- Ensure 99.99% system uptime with monthly on-call activities
- Collaborated with a special team in reducing the TCO by 30%
- Key in engineering in house Hadoop cluster replacing a paid PAAS service (Qubole), further reducing the TCO by ~15%

Software Developer **Gslab** **June 2015 – April 2016**

- Emphasized mainly on but not limited to DevOps activities including deployment of Kpoint video software for Clients like TCS, Infosys, etc
- Coordinating bi-weekly devops meets within the team to ensure knowledge sharing
- Design and deployment of end-to-end CI/CD pipelines used for reporting
- Created test beds using Docker containers which helped the developer teams speed up the delivery process hugely which was later made available through API

Software Engineer **Persistent Systems Limited** **Dec 2013 – May 2015**

- Deployed and maintained Hadoop 1.0 and 2.0 clusters, Application Servers using Chef (CMS) on local as well as AWS instances which was later expanded to accommodate other projects in the Business Unit
- Seamlessly managed projects which demanded use of different set of CMS tools altogether
- Tools/Platforms used widely:- Puppet, Chef, AWS, Azure, Jenkins, Hadoop (Cloudera, Apache, Hortonworks)

Additional Experience

Mentor **Udacity** **August 2017 - Present**
Data Analyst Nanodegree

- Help global students on topics in Data Science like Data Analysis, Machine learning, Python, R, A/B testing, etc
- Help build systematic pipelines for working on large scale data
- Keep students accountable to making progress each week
- Act as a friendly face and be approachable

Projects and Blog

Github Portfolio: Link

Medium Handle: Link

Education

Data Analyst Nanodegree **Udacity** **Sep 2016– May 2017**

- Data Wrangling and Cleaning (python, mysql, mongodb)
- Exploratory Data Analysis (descriptive and inferential statistics, R, python)
- Machine Learning (python, sklearn, numpy, pandas)
- Data Visualization and Explanatory Data Analysis (python, Tableau)

B.E (CSE) **MGM's Jawaharlal Nehru Engineering College, A'bad** **Aug 2009- Jun 2013**

- Graduate Coursework: Computer Architecture, Advanced Algorithms, Computer Networks, Database Systems, Engineering Mathematics, Operating Systems, Computational Theory
- Honored first class, 65% aggregate

Certifications

Data Analyst Nanodegree **(**Udacity**)** Link • Neural Networks and Deep Learning (Coursera**)** Link • Hyperparameter tuning, Regularization and Optimization **(**Coursera**)** Link • Structuring Machine Learning Projects **(**Coursera**)** Link

Key Skills

Exploratory Data Analysis using Python, R and Tableau • Data Modelling and Evaluation • Optimization of algorithms and parameter tuning • Ensemble techniques • Storytelling ability with data • Experience with Distributed systems (Hadoop) • Deep Learning for Computer Vision

Sincerely,
Vikram Iyer