BHARATH KUMAR SHIVAKUMAR

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Education

Northeastern University, Boston, MA, USA   **September 2018 - July 2020**
Master of Professional Studies in Analytics, Statistical Modeling, 3.6/4

- Hypothesis Testing, Regression Methods, Forecasting, Classification and Clustering, Anomaly Detection, Central Limit Theorem, Generalized Linear Model, Neural Networks, Naive Bayes, Data Munging, Data Wrangling
- Demonstrated excellent IT assistance to organize and manage Project Management events at Northeastern

Bangalore University, Bangalore, Karnataka, India   **March 2011 - May 2014**
Bachelor of Science in Computer Application, Computer Science, 3.4/4

- System Design, Algorithms and Data Structures, Software Engineering, Java, C++, SQL, Numerical Analysis, and Linear Programming, Database Management Systems, Fundamentals of Unix OS
- Awarded 'Recognized for Distinct Contribution to the Department of CS' By ESOTERIC the IT Club

Technical Skills

- **Programming Languages:** Python, R (Advanced), Java, C++ (Intermediate)
- **Python Libraries and Tools:** OpenCV, Statsmodels, Anaconda Distribution, NLTK (Advanced)
- **Big Data Technologies:** KNIME, Hadoop, Apache, Spark, MapReduce (Intermediate)
- **Machine Learning Tools and Technologies:** PyTorch, SciPy, Pandas, Keras, TensorFlow (Intermediate)
- **Related Technologies:** S3, EC2, Lambda (Intermediate), JavaScript, Jupyter notebook, Git (Advanced)

Projects

- ***Decoded Facebook's pricing model; documented potential business opportunities***
  Tools used: KNIME Analytics Platform to build and train models, R Studio to perform Exploratory Data Analysis
- ***Identified the Impact of Increased Internet Penetration over Human Development Index***
  Tools used: Python NLTK to process data, Azure Machine Learning Studio to build and test statistical models
- ***Discovered and documented the Influence of Location Quotient over US Economy***
  Tools used: R on Anaconda for sampling and to conduct statistical tests. Pandas, NumPy for data exploration

Work Experiences

Loro Co., Cambridge, MA, USA   **July 2019 - January 2020**
Data Scientist & Software Developer. Research and Product Development. **Internship**

- Demonstrated exceptional expertise in integrating hardware and software; Developed a Linux desktop application with a communication feature based on AI and ML, NLP, Object Detection, and Face Recognition
- Engaged with the research team, caretakers, speech therapists to understand the medical conditions of users later write technical specifications and brainstorm with the team to productize the ideas with a product plan
- Architected the product data pipeline for aggregating application usage data with a focus on making necessary data-driven product enhancements preserving the user's data privacy
- Created a Linux desktop application from scratch with Python3, OpenCV4, PyQt5, TensorFlow lite, Image, and Text classification models using tf.keras. Implemented the ML models using Google TPU and Intel NCS
- Built a responsive cross-platform mobile application using AWS Amplify, React Native, and Js

IBM India, Bangalore, Karnataka, India   **October 2014 - June 2017**
IT Incident Management Coordinator. Global Business Services. **Full-time**

- Reduced worktime for agents by 35% by automating repetitive standard processes of eight EMEA Projects
- Learned IBM Watson Content Analytics to identify incident relationships, visualize trends and spot correlations
- Coached colleagues on JavaScript, Advance Excel and VBA technologies to strengthen the automation workforce
- Revitalized major IT incident handling process with associated Application Support groups
- Created dynamic KPI reports. Used IBM Design Language Studio to improve the quality of the reports

Achievements & Activities

- Awarded six months of co-working space at Verizon 5G Labs for Built on 5G Challenge 2019 by Verizon & Samsung
- Won "CES 2020 Eureka Park Accessibility Challenge Winner" at CES 2020, Las Vegas for the software I developed
- Publish technical articles on Medium; I love to share knowledge; I'm curious to learn new ways of solving problems
- Actively participate in LeetCode and HackerRank contests, solve coding challenges
- Answer questions on StackOverflow; help other learners with my coding techniques