

# 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 (Advance), Java, C++ (Intermediate)
- **Scripting Languages & Frameworks:** JavaScript, React Native, VB Script, Django, Bootstrap (Advance)
- **Big Data Technologies:** KNIME, Hadoop, Apache, Spark, MapReduce, S3 (Intermediate)
- **Data Analysis & Visualization Tools:** MS SQL Server Analysis Services, Power BI, Tableau, Google Data Studio
- **Machine Learning Tools and Technologies:** PyTorch, SciPy, Pandas, Keras, TensorFlow (Intermediate)

## Projects

- ***Now working on a Twitter app; An app to graphically show real-time analytics of hot news around the world***  
**Tools used:** Django framework, Tweepy API, VS Code, and Git version control
- ***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

## Work Experiences

**Loro Co.**, Cambridge, MA, USA

**July 2019 - January 2020**

**Software Developer.** Research and Product Development. **Internship**

- Demonstrated exceptional expertise in CI/CD of a Linux desktop application with a communication feature based on Artificial Intelligence and Machine Learning, Natural Language Processing, Image Recognition
- Created a Python application from scratch with Python3, OpenCV4, PyQt5, TensorFlow lite, Image, and Text classification models using TensorFlow Keras. Implemented the ML models using Google TPU and Intel NCS
- Architected a data pipeline for the product to aggregate app usage data with a focus on making necessary data-driven product enhancements, derive vital insights about user behavior, accumulate data for Neural Network
- Built a responsive cross-platform mobile application using AWS Amplify, React Native, and Js
- 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
- Mentored two engineers new to Python and Linux Process Environment on best practices through code reviews

**IBM India**, Bangalore, Karnataka, India

**October 2014 - June 2017**

**IT Incident Management Analyst.** Global Business Services. **Full-time**

- Reduced worktime for agents by 35% by automating repetitive standard processes of eight EMEA Projects
- Created dynamic KPI reports. Used IBM Design Language Studio to improve the quality of the reports
- Compiled detailed process automation road maps, and schedules after gathering requirements from clients
- Responsible for migrating a static app to IBM Cloud. Post-deployment, app efficiency was increased by 90%
- Learned IBM Watson Content Analytics to identify incident relationships, visualize trends and spot correlations
- Coached colleagues on JavaScript, Advance Excel, and VB Script to strengthen the automation workforce

## Achievements & Activities

- Awarded six months of co-working space at Verizon 5G Labs for Built on 5G Challenge 2019 By Verizon
- Won "CES 2020 Eureka Park Accessibility Challenge Winner" at CES 2020 for the software I developed
- Publish tech articles on Medium; I love to share knowledge; I'm curious to learn new ways of problem-solving