HITESH VERMA

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EDUCATION

Northeastern University, **Khoury College of Computer Sciences**, Boston, MA   Dec 2019
Master of Science in Computer Science (GPA: 3.76)
Coursework: Machine Learning, Natural Language Processing, Data Mining Techniques, Information Retrieval, Algorithms

Visvesvaraya Technological University, Bengaluru, India   June 2015
Bachelor of Engineering in Information Science and Engineering
Coursework: Design and Analysis of Algorithm, Data Structures with C, Object-Oriented Programming with C++, Java and J2EE

WORK EXPERIENCE

IBM, Austin, TX   *Software Developer Intern*   May 2019 - Aug 2019
- Accelerated IBM Cloud adoption by delivering Terraform modules for provisioning IBM Cloud resources in cloud native solutions and published these reusable modules to open source for IBM Cloud customers.
- Improved visualization and monitoring of IBM Cloud resources stability by utilizing Kubernetes, Docker, InfluxDB and Grafana.

Bright Horizons Family Solutions, Watertown, MA   *IT Software Developer Intern (Co-op)*   May 2018 - Dec 2018
- Created a chat-bot application using C#, Azure Bot service and LUIS for assisting Back-Up Care customers.
- Initiated Ionic Mobile apps build and release automation using Azure DevOps, Jenkins, and Visual Studio App Center orchestration with Python scripts for environment provisioning and distribution; boosted time-to-market by more than 80%.

Tesco HSC, Bengaluru, India   *Software Engineer*   Aug 2015 - July 2017
- Created a web app with ASP.NET Web API, Entity Framework and JavaScript to provide consolidated customer data from multiple databases using SQL Server; reduced support team efforts by 30% and considerable amount of time for Business user.
- Delivered Jenkins pipeline orchestration with PowerShell automation of stages and Chef Cookbooks using Ruby scripts.

ACADEMIC / PERSONAL PROJECTS

Competitive Intelligence: Dynamic Pricing *(Python, Keras, Pandas, Scikit-learn)*   June 2019 - Aug 2019
- Fitted RNN, XGBoost and DNN models with entity embedding to predict product pricing based on engineered features.
- Performed exploratory analysis of raw data (1.4M rows) from Kaggle competition in Pandas and achieved 0.69 RMSLE on test.

Smart Essay Grader using Deep Learning *(Python, Keras, NumPy, Pandas)*   Feb 2019 - Apr 2019
- Built Multilayer Bidirectional LSTM and Feed-Forward Neural Network model pipeline to devise an automated essay scoring and feedback system and achieved 0.16 RMSE on test set.

Spam Messages Detector *(Python, NumPy, Pandas, Scikit-learn)*   Jan 2019 - Feb 2019
- Implemented Logistic Regression using Gradient descent from scratch and built a spam-based classifier with 91% accuracy.
- Incorporated Newton's method, Decision Tree, Naive Bayes and AdaBoost algorithm for performance comparison.

IRecall-Bot *(JavaScript, Python, Google Actions SDK, Mongo dB, Node.js)*   Sep 2018
- Developed Google assistant app integrated with Google Home Mini to help students to memorize notes with Q/A sessions utilizing Google Cloud Natural Language APIs and Dialog Flow.

Oven-Bot *(Python, OpenCV, Google Cloud Platform)*   Apr 2018
- Using Google Cloud OCR and IBM Watson, developed an application for empowering visually impaired to efficiently use touch-screen based microwaves via display analysis and speech recognition.

American Sign Language Interpreter *(AWS, Python)*   Nov 2017
- Developed an audio-visual application to interpret sign language through hand gestures using Leap motion controller to generate dataset and AWS Machine Learning model to predict English words with 91% accuracy.

TECHNICAL KNOWLEDGE

Languages: Python, Java, C#, JavaScript, Bash, SQL, HTML, CSS
Software/ Tools: Kubernetes, Docker, Terraform, Jenkins, Chef, Git, AWS, SSMS, Watson Studio, IBM Cloud
Frameworks/ Libraries: ASP.NET Core**,** .NET Core, TensorFlow, Keras, Scikit-learn, OpenCV, NLTK, Spark

RECOGNITION

- Earned "Best use of AWS" award for American Sign Language Interpreter in Wentworth MLH hackathon'17.
- Awarded first prize for "Oven Bot" at Perkins MLH hackathon'18 organized by Perkins School for the Blind, MA.