Kaushik Mani

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AREAS OF INTEREST

Machine Learning • Deep Learning
NLP • Software Engineering

EDUCATION

THE OHIO STATE UNIVERSITY
MS in Computer Science
Expected May 2020 | Columbus, OH
Cum. GPA: 3.73 / 4.0

NIT TRICHY
B.Tech in Electronics and Communication Engineering
May 2015 | Trichy, India
Cum. GPA: 8.52 / 10.0

LINKS

LinkedIn:// **kaushikmani**
Github:// **kaushikmani**

COURSEWORK

Machine Learning
Advanced Artificial Intelligence
Introduction to Data Mining
Computer Vision
High-Performance Deep Learning
Algorithms
Operating Systems

SKILLS

PROGRAMMING

Over 5000 lines:
Java • Python • Shell • Javascript
Over 1000 lines:
MySQL •C • C++ • SAP UI5 • LaTeX
Familiar:
Matlab • HTML • CSS • Neo4j

TOOLS/PACKAGES

Expert:
Pytorch • Keras • Scikit-Learn
SAP HANA • Numpy • Pandas
Matplotlib • Git
Proficient:
Maven • Springboot • Docker
Swagger • gensim
Familiar:
Tensorflow • Kafka • Kubernetes

ACHIEVEMENTS

Speaker, TechEd Conference, SAP
Delegate, Indian Cancer Congress
Outstanding Merit in Maths '09, '11

RESEARCH/ WORK EXPERIENCE

GRADUATE STUDENT RESEARCHER | Advisor: Dr. Huan Sun | Oct'18 - Present | Columbus, Ohio

- Exploring Deep Learning strategies to improve quality of information extracted from clinical notes.

SOFTWARE DEVELOPER | SAP | Bangalore, India | Jul'15 - Jul'18

SAP Connected Health Platform (On-Premise):

- Worked on the development of Plugin Framework and Data Integration which act as a framework for integration of healthcare data from external source systems into the clinical data warehouse.
- Developed features like Profile Chaining, Profile Scheduling and UI Integration in Data Integration framework which helped in automating the process of bringing the healthcare data from the external source systems.
- Maintained the production code by writing unit tests and fixing issues during AT phases.

SAP Health Platform (On-Cloud):

- Developed microservices for ingesting clinical data stored in both structured and unstructured format in an industry standard way for upstream analysis.
- Developed API's for a HL7 message server along with message transformation capabilities to convert the HL7 messages into FHIR form.
- Mentored the interns to get on track with technology stack and standard industry practices.

GRADUATE TEACHING ASSOCIATE The Ohio State University| Jan'19 – May'19 | Columbus, Ohio

- Instructor for course CSE 1222 – Introduction to Computer Programming in C++ for Engineers and Scientists.
- Conducted classes, labs and graded the exams, assignments for 80 students.

PROJECTS

EXPANDING HORIZONS IN KNOWLEDGE GRAPH COMPLETION | Feb'19 - Apr'19
Extended the knowledge graph completion model TransE, by incorporating the natural language aspect of the knowledge graph for KG completion models. **Frameworks:** Pytorch.

NEURAL IMAGE CAPTION GENERATION | Feb'19 - Apr'19
Extended the multimodal neural approach in image captioning with attention network and transfer learning methods.**Github Repo**.

DEEP NEURAL NETWORKS FOR SPEECH ENHANCEMENT | Oct'19 - Dec'19
Explored various deep learning architectures to create a frontend component for ASR systems that enhances the quality of noisy signal before it can be used for speech recognition. **Github Repo**.

INDIAN CANCER PROJECT | SAP Labs India | May'16 - Dec'16
Built plugins to collect, curate and analyze data for improving cancer treatment in India. The solution is currently used by 10 hospitals across India with 1 million records in the system. It was also presented at multiple conferences like Indian Cancer Congress and TechEd.