# T.K. Prashanth

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## Summary of Qualifications

- Co-Founder and CTO, Kwicky, LOI Labs Accelerator
- Data Scientist Intern, Advanced Analytics Lab, RBC, 2018
- M.Math Computer Science Co-Op student, University of Waterloo.
- **SAP Labs India**. Intern (Dev), Cloud Platform Integration Team 2017. *Skills: System development, Cross-Module Integration, Agile team.*
- Junior Specialist ( Research ), **Social Life Networks Lab, University of California Irvine. 2016**
- Research Intern, Knowledge Analytics and Ontological Engineering (KAnOE)
- Summer Research Intern, Microsoft Innovation Lab. 2014

## Skills and Interests

- Big Data Analytics: Using actionable statistics to drive business intelligence and drive insight for portfolio management strategies. Skilled in AI: Deep Learning, Statistics, Predictive Analytics: Using NLP along with Neural Networks for sentiment analysis and trend detection. Descriptive Analytics: Text Summarization
- Software Engineering experience in multiple platforms like Web, Mobile, Cloud(SAP HANA) and programming languages like JavaEE, C, python, Javascript, SQL & writing UNIX scripts and experienced in using APIs & frameworks like Docker, Google Cloud API, AWS, REST, Tensorflow (keras), scipy (pandas) scikit-learn, SQl, NoSQL and Graph Databases, NodeJS, JQuery & OSGI. I also built a stand-alone debugger and participated actively in Scrum meetings as an Agile developer
- I am very passionate about designing intelligent cognitive systems using computational neuroscience and using interpretable models for business intelligence.

## Projects & Internships

### Financial Text Analysis. *Advanced Analytics Lab, RBC, Toronto*

Extracted & transformed raw call transcripts for natural language processing in collaboration with Borealis AI research. Analyzed and trained deep learning models for financial sentiment analysis, Voice Recognition, topic modeling for exploring trade patterns for improving portfolio management on hedge and mutual funds.

#### IFlowDebugger. *SAP Cloud Platform Integration Team, SAP Labs India*

Conceptualized and built an independent tool for the SAP HANA Cloud Platform to efficiently debug integration flows in any enterprise scenario. The system used an OSGI based inter-process communication mechanism for integrating cross-dependencies in the modules. [Java, Maven, OSGI Framework, Apache Camel, Scrum dev experience]

#### ReadmissionAnalyzer

Created a platform for Clinical Decision Support Analysts to tackle preventable readmissions, which is a $25 billion problem in hospitals in USA and Canada. I trained a predictive model on Amazon ML and built tools for reporting trends amongst population cohorts using actual diabetic patient data. Our BI platform was designed to support integration of hospital databases for both statistical analysis and root-cause-analysis.

#### TargetZIKA: Disaster Situation Detection and Risk Preparedness For ZIKA Virus. *Social Life Networks Lab, UC Irvine*

Assembled a Disaster Situation detecting framework using microreports and aggregated heterogeneous multimedia datastreams to combat ZIKA in Brazil. Using a prototype tool Eventshop, we leveraged social media along with demographic data I also built a reporting tool for interactive real-time visualization of user activity

## Publications ( Conferences and Journals)

- TargetZIKA: Disaster Situation Detection and Risk Preparedness For ZIKA Virus. U-Media 2017.
- Towards Quantifying the Amount of Uncollected Garbage through Image Analysis. ICVGIP 2016

## Education:

- **Master of Mathematics, Computer Science, Co-Op University of Waterloo**, Ontario, Canada. 2017 - present. CGPA 3.85
- **B.E. Computer Science & Engineering, PESIT (affiliated to VTU Belgaum)**, Bangalore, India. 2013-17 CGPA: 9.25

## Awards, Achievements and Hobbies

- Captain and Manager of both the PES University Football and Hockey Team.
- Judge - #Code 2k16 Hackathon, Microsoft Innovation Lab.
- Volunteered at IYM India to teach Science and Technology to underprivileged children.
- Event Management and public speaking: I organized and hosted the NASA Space Apps Challenge and SAP IXP Summit 2017 in Bangalore. Organized Hackathons and Workshops for Student Nokia Developer, Microsoft Innovation Labs as a Core Executive Member.
- Won the Samarpana India 10km Run - 2016 while competing with soldiers of the Indian Army. I am an athlete and play football and hockey at a professional level.