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SAMPANNA KAHU

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EDUCATION

Virginia Tech **Aug 2018** to **Present**

M.Eng. in Computer Engineering (1st semester GPA = 4.0/4.0) – Important courses: Big Data Text Summarization, Computer Vision, Advanced Machine Learning, Security Analytics

BITS Pilani **2011** to **2015**

B.E Honours in EEE (Electrical and Electronics Engineering) (CGPA = 7.97/10) - Important courses: Data Mining, C Programming, Digital Image Processing, Engineering Mathematics and Digital Design.

WORK EXPERIENCE

Flipkart Internet Pvt. Ltd. **July 2015** to **July 2018**

Software Development Engineer

- Revamped reviews and rating web-service bumping the scale by ~50% & reduced legacy code.
- Helped develop ML model to de-duplicate user-submitted product questions.
- Built moderation service for deep learning based real-time content moderation to achieve scale (85% accuracy, 90% reduction in costs)
- Built several new features to increase user engagement including images in user reviews, aspect ratings & reviews through text mining using NLP (3x increase in engagement, 20% uplift in net conversion)

Flipkart Internet Pvt. Ltd. **June 2014** to **Dec 2014**

Software Development Intern

- ChatBot: Designed and implemented a Chat bot that chats with users through SMS and Google Hangouts to enable on-the-go product check and order tracking.

Globallogic India Pvt. Ltd. **Summer 2013**

Software Development Intern

- Convert any surface into an touch-surface: Developed an app using Kinect's depth-sensing camera to track the major joints of a human body for detecting 3-D localized gestures.

SKILLS

- **Relevant languages:** Python, Java, Matlab, HTML, CSS, Javascript, C/C++
- **Familiar tools:** Scikit-learn, Numpy, Pandas, Anaconda, PyTorch, React-js

PROJECTS

- **(Deep Learning) Text Classification using Convolutional Neural Networks:** Trained an ML model to classify a sentence as a 'Question' or an 'Answer'.
- **(Machine Learning Competition) RTO Fraud detection:** Implemented an ML model to predict whether a placed order would be successfully delivered or not (Return To Origin).
- **(Image Processing Research Project) Fluoroscopy based sparse reconstruction of coronary venous anatomy with application to cardiac resynchronisation therapy:** (2014) Developed methods to effectively reconstruct 3-dimensional model of cardiac venous anatomy from X-ray images of human heart.
- **(Image Processing Project) Detection of Diabetic Retinopathy from retinal images: (with Prof. Rao, BITS Pilani):** Developed various image processing techniques to automatically measure the severity of Diabetic Retinopathy from retinal images.

ADDITIONAL EXPERIENCE AND AWARDS

- **1st prize in Computer Vision & Robotics competition:** Position 1st in Machinist (Real-time video processing & robotics competition) BITS Pilani National Technical Festival (ATMOS '13)
- **1st prize in Robotics competition:** Position 1st in Maze Solver Competition at BITS Pilani National Technical festival (ATMOS '12).
- **3rd prize in Robotics competition:** Position 3rd in the zonal of International Robotics Challenge Gridmasters Competition at IIT BOMBAY Techfest.
- **Robotics Mentor (2013 – 2014): (Student Mentorship Program at BPHC):** Mentored students junior to me in robotics to help them get familiar with related concepts and helped them participate in competitions.
- Co-founder of Automation and Robotics Club (ARC) at BITS Pilani.