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SAMPANNA KAHU

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EDUCATION

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

M.Eng. in Computer Engineering – Important courses: Big Data Text Summarization, Multiprocessor Programming, Computer Vision, Robot Motion Planning

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

B.E Honours in EEE (Electrical and Electronics Engineering) CGPA: 8 / 10
Important courses: Data Mining, C Programming, Digital Image Processing, Engineering Mathematics, Digital Design, etc.

WORK EXPERIENCE

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

Software Development Engineer

- Built UGC (User Generated Content) service to serve product ratings and reviews at web-scale.
- Developed ML model to de-duplicate repetitive questions on products from users.
- Automated product review moderation through Deep Learning by building a multipurpose and extensible moderation service.

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 known:** Java, Python, Bash, Matlab, HTML, CSS, Javascript, C/C++
- **Familiar tools:** Scikit-learn, Numpy, Pandas, Tensorflow, Anaconda, React-js etc.

PROJECTS

- **(Deep Learning) Text Classification using Convolutional Neural Networks:** Trained a machine learning 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:** (with Prof. Menon, CMU): (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.
- **(Image Processing + Optics Project) Parallax Error Lens:** (Showcased in BITSAA Global Meet '14) Parallax Error Lens can convert any ordinary surface into a touch-surface using stereoscopic vision principles.

ADDITIONAL EXPERIENCE AND AWARDS

- **Secretary and founding member of Automation and Robotics Club (ARC) at BITS Pilani.**
- **1st prize in Computer Vision and Robotics competition:** Position 1st in Machinist (Real-time video processing and 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 Club Secretary:** Secretary and founding member of the Automation and Robotics Club (ARC) at BITS Pilani.
- **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.