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SAMPANNA KAHU

Looking for Full Time
Expected graduation May 2020

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EDUCATION

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

Degree: M.S. in Computer Engineering (Plan Of Study GPA = 4.0/4.0):
Important courses: Deep Learning, Advanced Machine Learning, Computer Vision, Big Data Text Summarization, Linux Kernel Programming.

Thesis topic: Extracting figures and tables from scanned Electronics Thesis and Dissertations (ETD).
About thesis: Using Deep Learning (Resnet-101) to segment figures and tables from the PDF files of scanned ETDs to aid in downstream information retrieval tasks.

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

B.E Honours in EEE (Electrical and Electronics Engineering) (Overall GPA = 7.97/10):
Important courses: Digital Image Processing, Data Mining, C Programming, Engineering Maths, Data Structures and Algorithms (unofficial audit).

WORK EXPERIENCE

Walmart Labs **June 2019** to **Aug 2019**

Summer Associate (Global Data Analytics Platform):

- Built a tool to move Big Data from on-premise Hadoop cluster to Google Cloud Storage using Apache Spark.

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

Software Development Engineer

- Helped develop Deep Learning model to find semantically duplicate questions on products from users.
- Automated product review moderation through Deep Learning by building a multipurpose and extensible moderation service.
- Built capability to store and serve e-commerce review images at web-scale.

SKILLS

- **Experienced in** developing, training and deploying Deep learning models on cloud.
- **Experienced in** Python, Anaconda, Pytorch, Scikit-Learn, Pandas and Numpy.
- **Fluent with:** C++, Linux/Bash, Git/Github, Matlab, Java and HTML/CSS/Javascript.

PROJECTS

Few shot distillation learning using Monte Carlo Dropout

(Bayesian Deep Learning) Used Monte Carlo Dropout for enabling few-shot knowledge distillation from a teacher model into a student model.

Trajectory prediction of pedestrians using Monte Carlo Dropout for autonomous cars

(Bayesian Deep Learning) Trained an RNN (LSTM) to not only predict the trajectory of a pedestrian, but also to predict the probability distribution of possible trajectories using Monte Carlo dropout.

Automatic Summary generation of electronic theses and dissertations (ETDs)

(Deep Learning) Trained and evaluated multiple deep machine translation models for automatically summarizing the text from ETDs given in PDF format.

Text Classification using CNNs

(Deep Learning) Trained an ML model to classify a sentence as a ‘Question’ or an ‘Answer’.