Vaibhav Singh

Contact Information

Mailing Address:	Infront of hanumaan temple, chetgiri colony, Chhatarpur (M.P), India, Pin Code - 471001.
Phone:	+91 9993506648
email:	svaibhavsingh@gmail.com

Work Experience

June 2018 - Present — **Strats Analyst at Goldman Sachs**

Responsibility involves leveraging data to find solutions for some of the strategic business problems by creating an end to end solution which includes data management, data analysis, and data visualization. All of this requires a range of skill set which I have acquired over the years in academia

Also worked as full-stack developer on web applications to automate the manual tasks done and removing the chances of human errors

Projects

June 2017 - June 2018 — *Convolutional Deep Gaussian Processes*[1]

Coming up with a model similar to deep neural networks in terms of efficiency and scalability with very less data for training. Extending the existing framework of deep Gaussian processes (a bayesian non-parametric approach) to all other applications such as computer vision. Working on betterment on inference techniques too. Such models are going to be very useful in medical field where data available is very scarce. Goal also includes making such models scalable too to leverage the data availability.

Jan-April 2017 — *Deep Model Compression: Distilling Knowledge from Noisy Teachers*

Both the run-time and storage complexity of the model is being reduced significantly. Such compression is very useful to bring deep neural networks in mobile devices or other electronic devices where we have limited resources for computations and storage.

Aug-Nov 2016 — Identifying Multiple User-Ids of Same Author

Amazon review data-set was used for verifying the framework. Users with multiple user Ids for writing fake reviews or deceptive opinions were identified.

Aug-Nov 2016 — Automatic accident detection from surveillance video footage.

Frames from video are being extracted that has a probable accident part in it. Auto-encoders and SVMs are used for the purpose.

Aug-Nov 2016 — Information Extraction from Micro-blogs Posted during Disasters

Classification of tweets into seven different classes that were posted during Nepal earthquake.

---

[1]Master's thesis work.

Education

June 2018	Master of Technology in Computer Science, **I.I.T**, Hyderabad Thesis: "Data efficient Deep Learning" │ Advisor: Prof. Srijith P.K. CGPA: 9.08/10
June 2016	Undergraduate Degree in Engineering, **S.G.S.I.T.S**, Indore Specialization: "Electronics and Telecommunication" Project: "IR based Home Security System" │ Advisor: Mrs. Rekha Jain
June 2012	Intermediate, **ILVA Higher Secondary School**, Indore
June 2010	MATRICULATION, **Maharishi Vidya Mandir**, Chhatarpur

Publications

August 2018	Vinayak Kumar, Vaibhav Singh, P. K. Srijith, Andreas Damianou, *Deep Gaussian Processes with Convolutional Kernels*, Uncertainty in Deep Learning workshop at Uncertainty in Artificial Intelligence (UAI), 2018[2]

Scholarships and Certificates

July 2019	Deep Learning Specialization. (Coursera)
January 2019	Mathematics for Machine Learning Specialization. (Coursera)
December 2018	Using Python to Access Web Data. (Coursera)
December 2018	Python Data Structures. (Coursera)
December 2018	Programming for Everybody (Getting Started with Python). (Coursera)
November 2018	Java Programming: Solving Problems with Software. (Coursera)
March 2016	Scored All India Rank 239 in GATE exam.

Computer Skills

Programming:	Python, C++, C, OpenCV, keras, Java, Angular, HTML, CSS
Tools and Operating System:	Android Studio, Excel, Word, PowerPoint, Latex, IntelliJ, Pycharm Ubuntu, Microsoft Windows

---

[2] Deep Gaussian Processes with Convolutional Kernels