Sankhya Singh

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SUMMARY

Graduating computer science senior of a highly ranked University with successful internship experience. Highly skilled in machine learning, scored distinction in advanced ML courses. Experienced in data wrangling and analytics with projects done across tableau and python. Seeking opportunities to leverage skills in data science, analytics and machine learning engineer.

INTERNSHIPS

JP Morgan Chase **Dec. 2019 – Feb.20**
Virtual software Engineer **Remote**

- Establishing Financial Data feeds.
- Frontend Web development.
- Data Visualization with Perspective.

RESEARCH PROJECTS

- **Total variation denoising using convex optimization.** **Nov. 2020**

- Used concept of Tikhonov regularization smoothing in order to denoise one dimensional corrupted signal.
- Inpainting is an interpolation problem, we used total variation regularization to solve the problem.

- **Facial recognition using transfer learning and quantization.** **Dec. 2020**

- First in the coursework to use quantization with pretrained Resnet50 model on static movie images.
- To overcome the effect of generalization we used network reduction technique. (see paper).

- **Exceptions in Defeasible logic (Thesis project)** **Dec. 2020**

- Formally tested the current set of laws for any exceptions. Moreover, the interplay of exceptions plays out a crucial role in determining the ordinance of decision making in robots.
- The exceptions were formally represented using RuleML and solved using SPINDLE (developed by CSIRO)

EDUCATION

Bachelor of Advanced Computing (Honors) **Dec. 2020**
Australian National University **Canberra, ACT**

- Second class division honours (H2B)
- Transferred from Manipal University in India (Computer science) with a GPA of 3.5/4.0.
- Robogals volunteer (2018-2020), Awarded second in suburban cricket competition in Manipal, Member of Aisec volunteering since 2017, Member of computer science and student association in ANU.

SKILLS & INTERESTS

- **Skills:** Python; PyTorch; C++; Java; SQL; DBMS;RDMS; TensorFlow; Rattle, Keras, ScikitLearn; convex optimization; Linear algebra; Ruby; Matplotlib; Pattern recognition; Big data; Data wrangling; Record linkage; NLP; Reinforcement learning; KRR ; Logic; AIPlanning; Data science & analytics; Tableau; Excel. A detailed lecture on SVM and Lagrange multipliers using PPT.
- **Interests:** Cinephile; premier league; sustainability; geopolitical ideology; diplomacy; yoga; travelling; Reddit; beer; ashes; politics; swimming; snorkelling.