**Sudarshan Bab[u](http://people.cs.uchicago.edu/~sudarshan/)** [|](http://people.cs.uchicago.edu/~sudarshan/) CV   
 sudarshan@ttic.edu –[Website](http://people.cs.uchicago.edu/~sudarshan/)

**Research Interests**

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| --- | --- |
| ○Meta-Learning ○Neural Architecture Design | ○Few-shot Learning ○Deep Learning |

**Education**

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| --- | --- |
| **Toyota Technological Institute [at University of Chic](http://people.cs.uchicago.edu/~mmaire/)ago**  *PhD., Computer Science, Advisor:* ***[Prof. Michael Maire](http://people.cs.uchicago.edu/~mmaire/)****, CGPA: 3.90/4.0*  **Toyota Technological Institute [at University of Chic](http://people.cs.uchicago.edu/~mmaire/)ago** *MS., Computer Science, CGPA: 3.83/4.0* | **Oct 2019 – Present Oct 2017 – Oct 2019** |

**Publications**

|  |  |
| --- | --- |
| **Online Meta-Learning via Learning with Layer-Distributed Memory *Sudarshan Babu****, Pedro Savarese, Michael Maire*  **Domain-independent Dominance of Adaptive Methods**  *Pedro Savarese, David McAllester,* ***Sudarshan Babu****, Michael Maire* | **NeurIPS 2021 CVPR 2021** |

**Patents**

**Method and System for Efficient Clustering of Combined Numeric and Qualitative Data Records** *Saurabh Agarwal, Aravindakshan Babu,* ***Sudarshan Babu****, Hariharan Chandrasekaran*   
**US Patent No. 10,846,311, issued Nov 24, 2020.**

**US Patent No. 10,747,785, issued Aug 18, 2020.**

**Academic Research Experience**

**HyperNetwork Design and its Applications to Cross Domain Transfer Learning Present** *Improve HyperNetwork design; demonstrate its efficacy in cross domain transfer learning.*

**Partial Meta Training and its Insights**  **Feb 2021 – July 2021** *Demonstrate that under certain conditions MAML exhibits adaptation (contrary to conventional wisdom).*

**Industry Experience**

|  |  |
| --- | --- |
| **Mad Street Den**  *Data Engineer*  Recommendation Engines, Product Similarity for Online Catalogs, etc. | **Feb 2016 – Mar 2017** |

**Relevant Coursework**

○Statistical Machine Learning (**A**)○Topics in Deep Learning (**A**)  
○Matrix Computations (**A***−*)

**Services**

○Natural Language Processing (**A**)  
○Speech and Learning Technologies (**A**)○Algorithms (**A***−*)

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| --- | --- |
| ○Teaching Assistant: Machine Learning; instructor Prof.Greg Shakhnarovich○Co-organizer of Annual TTI-C Student Workshop ○Co-organizer of vision reading group | ***Fall 2020***  ***Feb 2020***  ***Oct 2020 – Present*** |

**Skills**

○**Programming Languages:** Python; Matlab; C++; L AT EX

○**Packages:** PyTorch; PySpark; Scikit; WandB; PuDB