Ankita Singh

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EDUCATION

Florida State University, Tallahassee, FL   **Aug 2017 - Present**
MS and Ph.D. in Computer Science (3.95/4.00)

Institute of Engineering and Rural Technology, Allahabad, India   **Aug 2011 – May 2015**
Bachelor of Technology in computer Science and engineering(80.5/100). Rank 1 class of 2015

KEY SKILLS

•**Data Analytics** •**Model Development** •**Supervised Learning** •**Unsupervised Learning** •**Active Learning**
•**Transfer Learning** •**Classification** •**Regression** •**Time Series Analysis** • **Computer Vision** •**Clustering**

TECHNICAL SKILLS

Tools:	Python, SQL, AWS, Google Cloud, Linux, Selenium, GitHub, Weka
Packages:	Scikit-Learn, NumPy, SciPy, Pandas, NLTK, Matplotlib, OpenCV, TensorFlow, Keras, Seaborn
Machine Learning:	Principal Component Analysis, Linear Regression, Lasso Regression, Ridge Regression, Logistic Regression, Support Vector Machines, Decision Tree, Random Forest, Naïve Bayes, AdaBoost, GradientBoost, XGBoost, K nearest neighbors, K means clustering, Gaussian Mixture Models, DBSCAN, Apriori
Deep Neural Networks:	Convolution Neural Network, Recurrent Neural Network, Multi-Layer Perceptron

PROFESSIONAL EXPERIENCE

Research Assistant, Department of Computer Science, Florida State University   **Aug 2018 – Present**

- 3 first author and 3 co-authored **publications in Core ranking A/A*conferences**

   KEY PROJECTS:

- A novel Active Sampling method for Text Classification in a semi supervised setting with Subinstance Level Queries. Empirical study on 6 datasets showed upto **10% increase in accuracy over state of the art methods**.
- Imaging Time Series using Gramian Angular Fields to **reduce classification error by 12-20%** as compared to using raw data.
- Developed **first ever adherence prediction models to cognitive training programs for older people.** This is to aid a real time AI based coordinated message intervention.
- Over Sampling through Active Learning, **achieved better performance than other oversampling techniques** in both classification and regression problems.
- **Developed a novel active learning framework which can use relative labeling for datasets** where exact labeling is challenging.
- **First ever research** and implementation of a task-specific loss function **integrating active and transfer learning**.
- Developed a **novel framework** for domain adaptation in regression applications.
- Developed a model for intrusion detection in a semi supervised setting.
- Implemented research models based on a 2013 paper 'A discriminative model approach for suggesting tags automatically for Stack Overflow questions. **Attained 5 % higher accuracy than the original paper**.
- Analyzed tweets to predict public mood in addition to previous stock values to predict the high/low in stock market

Teaching Assistant, Department of Computer Science, Florida State University   **Aug 2017 - Jul 2018**

- Mentoring and teaching Microsoft Office tools and Data mining Strategies.

Assistant System Engineer, Tata Consultancy Services, India   **Dec 2015– Aug 2017**

- Designed and implemented Selenium Web driver scripts. **5-star performance throughout**.

AWARDS

- **Best Interdisciplinary Research Award** at the 2021 Aging and Health Informatics Conference (AHIC)
- **Winner** of 2017 Swami Vivekananda **Youth Outstanding Leadership Awards**