

Ankit

+91-6205062767 • E-mail: ank.sharma.1999@gmail.com
github.com/ankitsharma1999 • linkedin.com/in/ankitsharma1999

EXPERIENCE

UE-HCI LAB, IIT-Guwahati

Research Intern

Guwahati, Assam
Jun 2019 - Jul 2019

- Developed a **text-clustering framework** in Python
- Implemented **unsupervised learning algorithms** for text clustering like K-means and BIRCH
- Fine-tuned **BERT** for next sentence prediction
- Used state of the art **word vectors** for better performance
- Worked with **NLP** and **Deep Learning** libraries like NLTK, Sk-Learn, Tensorflow

EDUCATION

JADAVPUR UNIVERSITY

BE, Civil Engineering

Course Works: Linear Algebra, Vector Calculus, Numerical Methods

Kolkata, WB
Aug 2018 - 2022

CENTRAL ACADEMY

XII CBSE (PCM)

- 81%

Kota, RJ
2015 - 2017

ST FRANCIS SCHOOL

X - ICSE

- 94%

Deoghar, JH
2015

PROJECTS

Text Classification Model

[Project Link](#)

- Trained a **supervised deep learning** model for classification of tweets into binary classes.
- **Accuracy** reached on test set: **82%**
- Used **bidirectional LSTMs** and **GRUs** (separate models) for sequence modelling and feature extraction
- Used **Dropout** and tuned **hyperparameters** to reduce overfitting
- Used **GloVe Embeddings** to further enhance performance
- Frameworks used were **NLTK** (for preprocessing), **Keras**, **Tensorflow**

Neural Network Model

[Project Link](#)

- Implemented a **3 layered neural network** model from scratch (no deep learning frameworks used)
- **Accuracy** reached on test set: **85%**
- Implemented **backprop** on **binary cross-entropy** loss function using **batch gradient descent algorithm**
- Used **Numpy** for effective matrix calculations

Github Query App

[Project Link](#)

- Developed a simple android app to **search repositories** on GitHub
- Used **Java** for functionality and **XML** for UI design
- Concepts of Async Task, multi-threading, URI builder and JSON Parsing were used.

SKILLS

Programming Libraries / Frameworks	Proficient in Python , C/C++ , Java ; Competent in MATLAB , Javascript and Fortran . ML/NN: Tensorflow , PyTorch , Keras , Scikit Learn Others: Numpy , NLTK , Scipy , Pandas , Matplotlib
Systems / Platforms	Git , Linux
Markup / Templating	HTML , CSS , LaTeX , XML
Non Technical	MS Word , MS Excel , MS PowerPoint ,

COURSES / TRAININGS

- Data Structures(MOOC)
- Linear Algebra
- Vector Calculus
- Deep Learning and Neural Network (MOOC)*
- Analysis of Algorithms(MOOC)
- Object Oriented System Design
- Probability and Statistics
- Advanced C++ Programming*

*Link to certificate attached

POSITIONS OF RESPONSIBILITY

- **Marketing Outreach Coordinator** for Campus24
 - Member of **EDIFICE-2K19** organising committee
 - **Co-Ordinator**, IOSD, JU Chapter
 - Member of **Photography Club**, JU
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AWARDS / ACHIEVEMENTS

- Secured **2nd rank** in **Net-Quiz** organised by Mechanical Engineering Department, JU
 - Participated in **Hult Prize 2018**, JU Campus Chapter
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