# Kautsya KANU

## PERSONAL DATA

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## RESEARCH INTEREST

Machine Learning, Neural Networks, Natural Language Processing, Computer Vision

## EDUCATION

| 2016 | B.Tech. in PRODUCTION AND INDUSTRIAL **Minor in Computer Science** | **IIT Delhi**, New Delhi | GPA: 7.84/10 GPA: 8.18/10 |
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| COURSES | Data Structure, Artificial Intelligence, Natural Language Processing, Pattern Recognition, Analysis and Design of Algorithms, Database Management System(DBMS), Signal and Systems, Digital Electronics |
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## ACHIEVEMENTS

| SEP 2017 | Accomplished $5^{th}$ **rank** in India among 9500+ contestants in long contest, organized by CodeChef |
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| SEP 2017 | Ranked among **Top 3** solvers **Two times** in an optimization problem among 9500+ coders on CodeChef |
| AUG 2017 | Positioned among **Top 3** contributors on CodeChef Discuss among 8000+ contributors |
| NOV 2014 | **Two time Winner** in IIT Delhi Coding Club organized by ACES-ACM, sponsored by HackerEarth |
| MAY 2012 | **IIT Joint Entrance Examination**: Secured **1329 (GE)** rank among half million candidates |
| JUN 2010 | **District Topper** & Honoured by Director of Science & Tech. Board,UP for securing **100%** marks in Maths |

**CodeChef:** Yellow Rated (Top 0.4%) | **CodeForces:** BLUE(Expert) | **CodeChef Discuss:** Among Top 100

## PROJECTS

| MAY 2016 MAR 2016 | **UnSupervised Decomposition of Multi Author Document** Facilitator: *Prof Mausam, Faculty - IIT Delhi, Affilate Faculty - University of Washington* N-grams, POS tagging and PQ Grams based features were explored on un-lexicalized Probabilistic Context-Free Grammar using Stanford POS Tagger and Parser to capture distinct writing styles, Elicited Segments using GMM, Trained Multinomial Naive Bayes classifier over Vital Segments using sk-learn |
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| APR 2016 | **Named Entity Recognition for Real Estate** Trained CRF Model using MALLET over tokenised Real Estate data, Gazetteers related to locations, first and last names, POS tagging and RegEx as features, Explored Word Embeddings of Word2Vec model |
| MAR 2016 | **Unsupervised** and **Supervised** **Hand Written Digit Recognition** •Compared kMeans with PCA & GMM learnt using EM algorithm with PCA for Unsupervised clustering •Learnt Neural Network with Non-linear activation function, Back Propagation in PCA space •Tried Convolutional Neural Network and Auto Encoders for better Supervised Clustering |
| FEB 2016 | **Sentiment Mining and Domain Adaptation on Twitter dataset** Lemmatisation, Stemming, Removal of Stop Words, Normalisation, TFIDF based weighting to extract feature words, Explored SVMs and Logistic Regression with L1 regularizer with n-fold Cross Validation |
| APR 2015 | **Implemented BOT using MiniMax, Alpha-Beta pruning with Heuristics for Quoridor, achieved 5-ply** |
| FEB 2015 | **Formulated NP class problem into CNF SAT formula and solved using SAT Solver named MiniSat** |

## WORK EXPERIENCE

| APRIL 2017 JUNE 2016 | **iOS Developer at** HEADOUT**, Bangalore** Managed iOS Development from start to finish, **Featured iOS App** on Apple Store in Travel Category |
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| JULY 2015 MAY 2015 | **Backend Developer at** ZIMPLY**, New Delhi (Internship)** Extension for Image Extraction from Excel, Developed GUI for offline Image operations, Created Image Tagging, Chat-Box using Django, Worked on Image Compression algorithms and modified on EC2 server |

Extended **PPO (Pre-Placement Offer)** from organization for value added to company during internship

## TECHNICAL SKILLS

| TECHNOLOGIES | Scikit-learn, pyBrain, NLTK, Git, Django, XCode, SpriteKit |
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| LANGUAGES | Python, C++, Swift, MATLAB, C, JAVA, HTML, CSS, JS, mysql, LaTeX |