Kautsya KANU

PERSONAL DATA

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RESEARCH INTEREST

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

EDUCATION

2016	B.Tech. in PRODUCTION AND INDUSTRIAL	**IIT Delhi**, New Delhi	GPA: 7.84/10
	Minor in Computer Science		GPA: 8.18/10

COURSES | Data Structure, Artificial Intelligence, Natural Language Processing, Pattern Recognition, Analysis and Design of Algorithms, Database Management System(DBMS), Signal and Systems, Econometric Methods

ACHIEVEMENTS

JUL 2017	Positioned among **Top 10** contributors on CodeChef Discuss among 8000+ contributors
SEP 2015	Accomplished 58th Global Rank among 6000+ contestants in long contest, organized by CodeChef
JUN 2015	Positioned among **Top 3** solvers in an optimization problem among 6000+ coders on CodeChef
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 1%**) | **CodeForces:**   BLUE(Expert) | **CodeChef Discuss:**   Among **Top 0.15%**

PROJECTS

MAY 2016	**UnSupervised Decomposition of Multi Author Document**
MAR 2016	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
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	**iOS Developer at** HEADOUT, **Bangalore**
JUNE 2016	Managed iOS Development from start to finish, **Featured iOS App** on Apple Store in Travel Category
JULY 2015	**Backend Developer at** ZIMPLY, **New Delhi (Internship)**
MAY 2015	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
LANGUAGES	Python, C++, Swift, MATLAB, C, JAVA, HTML, CSS, JS, mysql, LaTeX