Kautsya Kanu

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EDUCATION

I.I.T. DELHI

BTECH IN PROD. AND INDUSTRIAL Jul 2016 | GPA: 7.84/10

MINOR IN COMPUTER SCIENCE Jul 2016 | GPA: 8.18/10

12TH CBSE

May 2012 | Percentage: 89.4

10TH U.P. BOARD

May 2010 | Percentage: 87.0

LINKS

Github:// kautsiitd LinkedIn:// kautsya-kanu-a0328293 CodeChef:// kauts_kanu CodeChefDiscuss:// kauts_kanu StackOverflow:// kautsya-kanu

SKILLS

LANGUAGES

Swift ★★★ Python ★★☆ LATEX ★★☆ Obj-C ★★☆☆ C++ ★★☆☆

OTHER:

Java • SQL • Shell • VBA • Verilog JSON • XML • HTML • CSS • JS

TOOLS

Git · SourceCode · Xcode · Django

OS

MacOS · Ubuntu · Linux · Windows

TEST SCORES

IIT JEE

Jul 2012 | 1329(GE)/5 million+ AIEEE

Jul 2012 | 99.5 percentile

UP BOARD MERIT

May 2010 | District Topper

HONOR CERTIFICATE

May 2010 | Awarded by Director of Science & Technology Board, UP for securing 100% marks in Maths

COURSES

Artificial Intelligence Natural Language Processing Machine Learning Analysis and Design of Algorithms Computer Architecture Database Management System

EXPERIENCE

OYO | IOS DEVELOPER | LINK

BTECH IN PROD. AND INDUSTRIAL Dec 2017 - Jul 2018 | Gurgaon, India

#3 in Travel

91.2K+ Ratings: 4.7/5

- Mentored an Intern & new hire; Interviewed many candidates for iOS Team
- Managed stake holder across **4+** teams to deliver Wizard, Search and **10+** projects
- Experienced Obj-C & moved to Swift while exploring VIPER from MVC
- Dug into Core Graphics, IBDesignable, IBInspectable & lower-level CG APIs
- Handled Multi-Threading, Serial & Concurrent Queues for Search Project
- Suggested & Implemented UX improvements increasing notification subscriptions

CODECHEF DISCUSS | VOLUNTEER TEACHER | LINK

May 2017 - Nov 2017 | Bangalore, India

- Wrote Editorials and helped other competitors through 200+ posts
- Secured among **Top 3** contributors out of **8000+** contributors

HEADOUT | IOS DEVELOPER | LINK

Jun 2016 - Apr 2017 | Bangalore, India

1K+ Ratings: 4.7/5

- Sole developer of iOS App while Featured on App Store in Travel category
- Explored Swift from scratch, Migrated to MVVM from MVC Architecture
- Worked with Singleton, Decorator Design Patterns and OOP, POP, KVO and KVC
- Owned 10+ projects like Similar Products, Lottery, Banners, Gift Cards, Referrals & other to increase conversion followed by AB-Experiments and Google Analytics
- Featured with Peek & Pop, Quick Actions, Deep Linking, Spotlight & Apple Pay
- Migrated & Revamped to XIBs & Storyboards for auto layout & faster development
- Dived into ARC and XCode Developer Tools for Memory Leakage & System Usage
- Built game using **SpriteKit** and Nearby Products Searching Feature in Hackathon
- Introduced **SwiftLint** enforcing Swift conventions, Markups and Documentation

ZIMPLY | Backend Developer Intern

May 2015 - Jul 2015 | Delhi, India

- Created Image Tagging, Chat-Box and modeled Database in Django
- Developed Software with GUI for offline Image operations using Tkinter & PIL
- Worked on Image Compression algorithms, modified on EC2 server using Cron
- Added an Extension for Image Extraction from Excel using VBA

IOS PROJECTS 2019

FLICKR | LINK

- Experimented with CollectionView Layouts, Implemented Mosaic Layout
- Introduced Cast Free Swift, Image Parallax, Transitions and RegEx
- Handled HTML Attributed string; Featured with Search while typing

NEWSAPP | LINK

- Implemented Infinite Scrolling using paginated public News APIs
- Assimilated Data Persistence along with Concurrency using CoreData
- Worked on Library for Image Persistence & Caching along DispatchQueue

CALENDAR | LINK

- Explored Predicate, SortDescriptor, FetchedResultController in CoreData
- Featured with Local Authorization, Pan Gesture for transitions & Widgets
- Including Local Notifications, Location APIs along with TODOs

Interested to Explore Unit Testing, RxSwift, React-Native and SwiftUI in Future

COMPETITIVE PROGRAMMING

 Sep 2017
 Ranked 7th/9500+

 Sep 2017
 Two times Top 3/9500+

 Nov 2014
 Two times Winner

 Oct 2014
 Ranked 24th/1600+

Long Contest by CodeChef
Optimization problem by CodeChef
IIT Delhi Coding Club organized by ACES-ACM
IIT KGP online contest sponsored by HackerEarth

CodeChef: Orange Rated (Top 0.2%) CodeForces: BLUE(Expert) CodeChef Discuss: Among Top 100

RESEARCH PAPER

KAUTSYA K., SAYANTAN S. "UNSUPERVISED DECOMPOSITION OF MULTI AUTHOR DOCUMENT". Exploiting the Difference of Syntactic Writing Styles. Published on Semantic Scholar 2019.

LINK

Mar-May 2016 | Prof Mausam, IIT Delhi, Affiliate Faculty University of Washington

- Researched on Independent Robust Approach with Improved Accuracy over a paper "A generic unsupervised methods for decomposing multi-author documents, N. Akiva and M. Koppel 2013" as baseline.
- Investigated role of feature selection that captures syntactic patterns specific to an author, on baseline
- Introduced PQ-Grams, POS tagging & TFIDF based features on unlexicalized PCFG to capture distinct writing styles
- Elicited Segments using GMM, Trained Multinomial Naive Bayes classifier over Vital Segments using sk-learn in python

PROJECTS

ARTIFICIAL INTELLIGENT VIRTUAL GAME PLAYER WITH GUI LINK Implemented MiniMax and Alpha-Beta pruning with Heuristics and achieved 5-ply for Quoridor Game. Apr 2015 Feb 2013 Conceptualized BOT with 3-ply and Designed GUI for n*n TIC TAC TOE and 2048 in python. NAMED ENTITY RECOGNITION FOR REAL ESTATE LINK Apr 2016 Trained CRF Model using MALLET over tokenized Real Estate data of Delhi NCR for entity identification Used Gazetteers related to locations, first and last names, POS tagging and RegEx as features of words Explored Word Embeddings found using Word2Vec model on unlabeled corpus, to achieve high F score UNSUPERVISED AND SUPERVISED HAND WRITTEN DIGIT RECOGNITION Mar 2016 Compared kMeans with PCA & GMM learned using EM algorithm with PCA for Unsupervised clustering Learned Neural Network using Back Propagation in PCA space for Supervised Clustering using PyBrain Tried to use Convolutional Neural Network and Auto Encoders for better Supervised Clustering SENTIMENT MINING AND DOMAIN ADAPTATION ON TWITTER DATASET LINK Jan 2016 Extracted feature words using Lemmatization & Stemming and Removed Stop Words Normalized words with intensely repeating letters, used TFIDF based weighting for high frequency words Created sentiment vectors based on unigrams, bigrams of featured words comprising classification space Explored SVMs and Logistic Regression with L1 regularizer on vectors, trained using n-fold Cross Validation BAYESIAN NETWORK LEARNING FOR ESTIMATION OF MISSING DATA Sep 2015 LINK Learned the Bayes net on healthcare dataset of more than 11000 patient records over 8 modeled diseases Predicted using Expectation maximization algorithm and achieved less than 25% learning error DESIGNED A PROCESSOR IN LOGISIM, INTERPRETED RISC ASSEMBLY LANGUAGE LINK Apr 2015 Feb 2015 | FORMULATED NP CLASS PROBLEM INTO CNF SAT FORMULA, SOLVED USING MINISAT MULTIPLE SEQUENCE ALIGNMENT FOR DNA AND PROTEINS LINK Jan 2015 Implemented IDA*, DFSBnB for optimal solution, Clustal W with hill climbing for sub-optimal solution Runner-up in sub-optimal solution with less than 5% error from optimal solution among 142 students

B.TECH. THESIS

3D Topology Generation and Simulation of Grinding Wheel

Jan 2015 - May 2016 | Prof Sudarsan Ghosh, Associate Professor, IIT Delhi

- Generated active grain profiles by Image processing and Texture mapping on topographical projections
- Adapted Edge detection Canny algorithm, implemented Z Stack Method, estimated topology in MATLAB
- Simulated metal removal for predicting kinematic interaction between grinding wheel and workpiece