

SHASHANK MISHRA

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Work experience

Product Engineering Intern 05/2019 – 07/2019

Publicis Sapient, Bangalore, India

Project: Face Authentication(KYC) for Bank(Name confidential) as Proof of concept.

1. Built full stack web and mobile application using AWS cloud architecture and React(for web) ,React-Native(for mobile).
2. AWS cloud services used: (S3, DynamoDB, Rekognition, IAM, Cognito, Lambda)

Research Intern 05/2018 – 07/2018

Bharat Petroleum Corporate Limited Research and Development Centre, Greater Noida, India

Project: Syn-Gas Conversion to Syn-Crude via FTS(Fischer Tropsch Synthesis route: Material and Energy Balance

Projects

Skill Match Finder App Back-end (Personal Project)

1. Saved Cache space for getting user content with probabilistic **bloom filter**.
2. Used Spatial data indexing of users with **M-tree** for finding nearby users with respect to querying user.
3. Implemented **disjoint set forest** which can handle **25M** interactions between **10M** users in 15 seconds in my system.
4. Implemented **infix query** suggestion automation with **Suffix Trees** which can perform **5M** automation on **470K** words in 3 secs.

Machine Learning BITS F464 (Course Project)

1. Implemented algorithm from scratch:(a.Naive Bayes Classifier b.Decision Tree c. Logistic Regression)
2. Implemented **ensemble models** (a.Bagging-Random Forest b.Boosting-AdaBoost for Multi-class Classification c. Stacking)

Graphs and Networks Math F243 (Course Project)

1. Understanding the Peterson graph and its properties.
2. Cycle double cover conjecture
3. DFS based algorithm for find articulation points

Extraction of road network from satellite aerial image(Personal Project)

1. Implemented MIT roadtracer algorithm (an iterative search process guided by a CNN-based decision function) in Pytorch (July-2019 -present)

Education

Birla Institute of Technology & Science, Goa, India 07/2016 – present

1. Bachelor of Engineering in Chemical Engineering
2. CGPA (7.31/10.0)

Class 12, Kanpur, India 05/2014 – 05/2015

1. PCM+ Computer Science
2. Board ISC: CGPA (9.3/10)

Class 10 , Kanpur, India 05/2012 – 05/2013

1. General
2. Board: ICSE: CGPA:(9.28/10.0)

Competitive Coding Profile

Solved more than 800 problems across all platform

1. **Codechef**: (Rating 1924 (4 star) Country Rank: 3079)
2. **Codeforces**: (Rating 1618 Country Rank : 947)

Techgig Code Gladiator 2019:

Semifinalist among 268331 participant

Google Code Jam 2019:

Round 2 : India Rank 42 World rank 2443

Facebook Hacker Cup 2018

Round 1: World Rank (1253/7131)

Skills

Programming languages

Java, Javascript, C++,C#,Python

Relevant Institute Courses

Machine Learning,Operation Research,Computer Programming,Graph Theory and Networks

MOOC Courses

1. Neural Networks and Deep Learning :Coursera
2. Improving Deep Neural Networks: Hyperparameter tuning :Coursera
3. Structuring Machine Learning Projects :Coursera
4. Network Management : Nettech Pvt Ltd

Hobbies



Sketching