ANUKRITI GUPTA

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Sep 2018 - Present

FDUCATION

Data Scientist - I

YEAR	DEGREE/EXAMINATION	BOARD/UNIVERSITY	CGPA (%)	RANK
2014	M. Sc. Mathematics	INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY	9.29/10	SECOND
2012	B. Sc. Mathematics	HINDU COLLEGE, DELHI UNIVERSITY	88%	FIRST
2009	ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION, CBSE	ST. ANTHONY GIRLS SR. SEC. SCHOOL, DELHI	87%	FIRST
2007	ALL INDIA SECONDARY SCHOOL EXAMINATION, CBSE	RAMJAS GIRLS SR. SEC. SCHOOL, DELHI	83%	SECOND

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	2009	ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION, CBSE	ST. ANTHONY GIRLS SR. SEC. SCHOOL, DELHI	87%	First		
	2007	ALL INDIA SECONDARY SCHOOL EXAMINATION, CBSE	Ramjas Girls Sr. Sec. School, Delhi	83%	SECOND		
EMPLOYMENT							

UnitedHealth Group

- Leading a team of 3 members, to establish an analytics team for E&I members.
- Leading an initiative PINE, to identify short term triggers/events occurring in members' life impacting their journey on a real time basis.
- Identified actionable drivers for lapsed members leveraging Supervised Clustering and forward logistic regression.
- Predicted the likelihood of a member to pick up a call in DHN program using Gradient Boosting method, selected for US Patent.

UnitedHealth Group Sep 2017 - Aug 2018 **Data Scientist**

- Predicted Provider's rating based on the "member's satisfaction with provider" questions from CAHPS Survey to take stringent actions against Provider with low rating using Hierarchical Bayesian Modeling and Confirmatory Factor Analysis.
- Segmented the Disabled members based on their Physical and Behavioural need to effectively target the member based on their medical state and existing medical condition using Confirmatory Factor Analysis.
- Identified the need of a member to visit a Cardiologist using pastyear Laboratory results of Cardiac problems. Also compared it with actual Cardiologist visits to understand the difficulties faced by a member in visiting to the specialist.

UnitedHealth Group Apr 2017 - Aug 2017 **Lead Business Analyst**

- **Promoted** to a managing role in 6 months duration.
- Predicted the likelihood of a member to have mobility impairment in future using logistic regression, Random Forest and PCA. Identified their pain points and developed strategies to improve their member experience.
- Identified member's hassles points and transform their journey while they are undergoing **Chemotherapy**.
- Developed a tool for IncrementalML to reduce unnecessary rescoring and validation of model. Also to capture the trend of latest data.

UnitedHealth Group Apr 2016 - Mar 2017 **Senior Business Analyst**

- Selected from a team of 50 to travel to UHG Head Office in US and train a team of 12 on Big Data Environment & PySpark.
- Improved the methodology to define the members' level of email engagement by including their interaction data from previous years. Als o used Empirical Bayesian Model to predict the likelihood of a member opening an email in future
- Identified an optimized path to target members for Breast Cancer Screening campaign to increase their engagement and to reduce unproductive communications using Decision Trees and Markov Model in PySpark
- Performed a clustering exercise to understand the inbound callers and optimize their contact strategy on the basis of member level clusters using Big Data and PySpark
- Recommended the best plan mixture to be offered to a prospect based on the prospect's similarity of attributes with members having the similar plan using Big Data and PySpark
- Performed deep dive analysis on CAHPS Survey to improve the accuracy of 9 CAHPS Measures:
 - Built 9 predictive multiclass models to identify low score responders using Xgboost, Support Vector Machine, Neural Network
 - To understand the extent at which different measures move together or differently

Jul 2015 - Mar 2016 UnitedHealth Group **Business Analyst**

- Developed an Uplift Model, composed of Test and Control Models which identifies the impact of inbound call campaign on completion of a screening available with the member post 120 days of the campaign using Naïve Bayes Classifier Algorithm
- Predicted the likelihood of a member to get re-admission post 30 days of discharge using Random Forest
- Developed a predictive model which identifies the likelihood of a member to lapse at EOY using Logistic Regression
- Built a Tableau dashboard to compare the weekly churn and retention rate of members of 2 consecutive years
- Measured Marketing Campaign's effectiveness using Test vs. Control and Clustering approach
- Built predictive model to identify the key drivers of NPS using Generalized Linear Model
- Identified the key problems that would lead a member to be a Detractor (lowest score in NPS) using Topic Modeling (Text Mining)
- Automated the modeling process and improved the accuracy by incorporating Ensemble Modeling techniques

Achievements:

- Awarded Go to the Extra Mile Award, 1 in a team of 60, for initiating a new initiative AES PINE.
- First and only person in the team to receive a Bravo Award from the client for value creation in an on-site project.
- Won a Datahack ML competition (1st place among 6 teams) organized by Optum to predict the service outage of an application
- Awarded STAR Performer Award, 1 in a team of 326, for delivering the Big Data Hassle Free BCS leveraging Markov Chain Model

- Awarded Team Excellence Award, for delivering the leveraging Machine Learning techniques on 3 Big Data projects.
- Awarded **Diamond Award**, 1 in a team of 30, for Collaboration for successfully delivering the CAHPS Analytics project on time.
- Received Team Spirit & Excellence Award, 1 in team of 30, for identifying the key issues of a Detractor using Text Mining in Q2'16.
- Received Venus Star Award, 1 in team of 30, for successfully delivering Re-admission predictive model project on time in Q1'16.
- Received **Special Thanks & Recognition Award,** 1 in team of 30, within 3 months of joining the organization for building a Member's Retention dashboard

Business Analyst (Financial Crime & HSBC Jul 2014 – July 2015 Regulatory Compliance)

- Worked with a global mandate that aims to support the Anti-Money Laundering (AML) Operations & Investigations teams for HSBC Correspondent Banking businesses in Hong Kong (HK) and UK
- Developed a risk based prioritization model that optimized the AML investigation process in HSBC HK by reducing non-productive transactions by 62%

TECHNICAL SKILLS

- Languages: Python, R, SQL, C++, VBA (Basic), Unix Scripting
- Tools & Technologies: Hive, Hadoop, PySpark, SAS, SPSS (Basic), Knime, MS Office

INTERNSHIPS

MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION, GOVT. OF INDIA

(Jul-Aug, 2013)

GUIDE: DR. RATTAN CHAND, CHIEF DIRECTOR (STATISTICS)

- Statistically analyzed the demographic profiles of India using Census 2011 data
- Identified various factors that affect population growth IMR with major focus on Empowered Action Group (EAG)

AYPEE GROUP (MAY – JUL, 2013)

GUIDE: MR. R. P. SHUKLA, ASSISTANT GENERAL MANAGER

Studied the emergence of Derivatives trading in various sectors of Indian Economy and its application to minimize the risk

BANKING MANAGEMENT SYSTEM USING C++

(Nov 2012)

GUIDE: DR. ABHIRAM RANADE

- · Developed a code for solving financial problems of a customer in a banking environment
- Nurtured the needs of an end banking user by developing a code for creating an account, checking balance details etc. to perform banking tasks

ACHIEVEMENTS

- Ranked 2^{na} out of 28 students in the Mathematics Department, IIT Bombay
- Secured 45th rank out of more than 20,000 candidates in JRF (NET) conducted by UGC
- Recipient of Institute Academic Award, IIT Bombay, awarded to top 2 rank holders in a department
- Secured All India Rank 4 out of 10,000 candidates in Mathematics Joint Admission Test for M. Sc. conducted by IIT
- Secured 4th rank (overall) and 3rd rank (final year) in Delhi University among 800 students
- Secured 1st position in college in all 3 years of graduation at Delhi University
- Awarded Certificate of Merit from International Mathematics Olympiad

POSITIONS OF RESPONSIBILITY

PLACEMENT COORDINATOR, MATHEMATICS DEPARTMENT, IIT BOMBAY

(JUL'13 - JUL'14)

- Co-ordinated recruitment activates for placements in a team of 90
- · Acted as a liaison between students of diverse academic interests, companies and placement body
- · Responsible for timely dissemination of placement related vital information to the students
- Organized preparatory activities such as lectures, quizzes, Buddy talks, GD/PI sessions and workshops

COORDINATOR, ALPHA 2011 (MATHEMATICS FEST OF HINDU COLLEGE, DELHI UNIVERSITY)

(FEB 2013)

- Key member in the event organizing committee
- Successfully organized Mathematical Quizzes and was responsible for setting the questions and conducting the event for 500+students

EXTRA-CURRICULAR ACTIVITIES

DANCE

- Represented the department in Dance Competition, PG Cult 2013 (Selected for second level) and Sophie Prod 2012, IIT Bombay
- · Active member of SRIJYA (dance society of Hindu College) and won many prizes among DU colleges

TEACHING SKILLS

- Experience of 4 years in teaching Science and Mathematics to around 20 students of secondary and higher secondary classes
- Completed teacher training course in Vedic Mathematics

OTHERS

- Delivered a speech at Centre level on 'Biodiversity Nurture Nature for our future', organized by Directorate of Education, Govt. of NCT of Delhi
- Represented the school in Science Quiz organized by Ministry of Earth Sciences
- Acted in many **Theatre** performances organized by Talent Group

ONLINE CERTIFICATIONS