

# Archit Agarwal

Mumbai, IN

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## EDUCATION

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- **Indian Institute of Technology, Delhi** 2013-2017  
*Bachelor of Technology, Textile Technology, GPA: 7.12/10.00*
  - **Relevant Coursework:** Data Structures, Advanced Fluid Mechanics, Experimentation & Statistics, Linear Algebra, Calculus & Differential Equations, Intro to Computer Science
  - **MOOC:** Statistics-I, Statistics-II, Machine Learning, Applied Text Analytics, Deep Learning Specialization

## SCHOLASTIC ACHIEVEMENTS

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- **Patent:** Ajmera, Sanketh, **Agarwal, Archit**, Bagha, SS, Srivastava, R, Singh, R, Yadav, AK, Pradhan, Apoorva; "A Microfluidic Device and a method for fabricating a three-dimensional (3D) polyHIPEs", 201811021521, IPO 2018
- **Agarwal, Archit et al.**, "A novel Co-Flow microfluidic device to generate HIPEs", 12<sup>th</sup> **COMPFLU**, Roorkee, IN 2018
- **Agarwal, Archit et al.**, "Creating PolyHIPEs through HIPE Generation in a Novel Co-flow Device", **APA**, Nepal 2018
- **BOSS Award:** Made it to TOP-2 of prestigious BOSS Award, 2018 amongst all Bachelor Thesis Projects 2017

## PROFESSIONAL EXPERIENCE

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- **Analytics Specialist, TransOrg Analytics** : *Products and advanced analytic emphasis* Apr, 2019–Current
  - **AutoML Product:** Integrated AutoML module in the flagship product to provide advanced analytic solutions
    - \* Integrated OpenML, client datasets to create a meta-features of KPIs for varied business problems.
    - \* Developed automated data manipulation, docked with regex based text mining & one-hot encoding
    - \* Created ensemble of algorithms, appointed bayesian hyperparameter optimization to find best fit
- **Analyst, TransOrg Analytics** : *Delivered strategic predictive analytic solutions to leading payments bank* 2017-2019
  - **Customer Churn Model:** Developed recall focused **Random Forest** Model to minimize asset churn rate
    - \* Trained random forest with recall value 80% to predict customer churn, preventing 3% asset loss
    - \* Designed **customer-segment** based campaigns, maximizing engagement & reducing asset inactivity
  - **Branch Assets Optimization:** Used optimization and NN-algorithms to increase overall efficiency of branches
    - \* Optimized lending cash collection efficiency by 20%, by optimizing work routes using **Dijkstra**
    - \* Appointed CNN model with 90% accuracy to detect handwritten application to minimize funnel time
  - **Cross-Sell, Up-Sell & Campaign Drives:** Developed **Logistic Regression** based classification models
    - \* Implemented model with 80% recall to determine most probable customers, increasing MRPC by 7%
    - \* Predicted **Next Best Product** most likely to be bought, enhancing products per customer by 20%
    - \* Provided valuable leads to concerned teams with convert percent of 40% across all LOB's combined
  - **Initialized analytics framework:** Established **automated pipeline** to develop support for future analytics
    - \* Conducted statistical experiments & tests to scout for possible KPI discovery for future models
    - \* Transformed data into 100+ preliminary analytic dashboards for business, whilst generating 360° view
    - \* Enabled automated ETL framework to channel tributary data into single **HADOOP** cluster via **SQOOP**

## SELECTED PROJECTS

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- **Rain Pattern Forecasting (Academic Project):** 2016
  - Used **PCA** to find major forces affecting the wind direction, precipitation rate for a complete cloud cycle
  - Created **MATLAB simulation** based on PCA forces to predict changes in weather along Indian coastline

## SKILLS AND INTERESTS

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- **Languages:** PySpark, Python, SQL, Linux, MATLAB, Java, LaTeX
- **Others:** Pandas, MLlib, NLTK, BeautifulSoup, Tensor-Flow, Scikit-learn, OpenML, HADOOP, SQOOP, Excel
- **Interests:** Travel, Food, Wine & Brewed beer, History, WW2, Classic Rock, Oil Painting, Communication Design