

Bhavishya Pohani

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LinkedIn
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Education

- **National Institute of Technology - Surat** Gujarat, India
B.Tech Electronics & Communication Engineering : GPA 3.06/4.00 August 2012 - May 2016

Work Experience

- **Chubb Insurance** Bengaluru, India
Analyst (full time position) March 2021 - Present
 - Building a website searching and scraping solution for Chubb's potential clients
 - Developing a summarization model as a part of digital underwriter assistant application that summarizes business operations for Chubb's potential clients.
 - Summarization model uses transformer model *BART*, with included NER removal & tagging to provide precise & trustworthy summaries.
- **BridgeI2I Analytics** Bengaluru, India
Senior Associate Consultant (full time position) Jan 2019 - Feb 2021
 - Individually developed a Standard Industrial Classification *website-classifier*; solving a 1200-class multi-label, multi-class classification problem using language representation model *BERT*. Model performance at par with humans, & improved over current in-production model by a lift of 15%
 - Re-purposed BERT by removing its limitation of 512 words, added confidence calibration (*temperature scaling*), added *gold loss correction* to deal with noisy & untrusted labels, added *loss balancing* to deal with severe data imbalance. Used *Tensor Processing Units* to scale up training process to a million records
 - Received 'Over & Above Award' for exemplary work under tight constraints

Associate Consultant (full time position) Dec 2017 - Sept 2018

 - Implemented *xgboost* models to predict loan foreclosure at different time intervals to boost customer retention & decrease foreclosure rates by 7.5% by customizing loans according to risk predictions
 - Collaborated with 2 team members to form framework for proactive detection of dealer-side fraud for a consumer durable lending business
- **Arya.ai** Mumbai, India
Machine Learning Research Scientist (full time position) December 2016 - November 2017
 - Built a large scale cheque automation system wherein fields such as date, amount, etc is extracted using *CNNs*. Signature is localized through *YOLO* like architecture. System processes 100k cheques in 4 hours & decreases the need for human involvement by 70%
 - Trained & deployed face recognition API service using *FaceNet* with accuracy 90%
 - Put into practice an OCR system using *Tesseract OCR* which used a mix of neural networks. Added rule based systems to handle very noisy documents with an accuracy of 84%
 - Recruited data scientists for the organization across 4 recruitment drives, interviewed 30+ candidates
- **Mu Sigma** Bengaluru, India
Trainee Decision Scientist (full time position) May 2016 - November 2016
 - Coded a decision tree classifier in *Scala* for an internally used machine learning library
 - Leveraged *Spark* to allow the classifier to handle incremental big data in a distributed fashion

Projects and Contributions

- **(Undergraduate Project) Diabetic Retinopathy Classification** *September 2015 - April 2016*
 - Wrote a *CNN* from scratch using *Theano* that classified images of eyes in 5 levels of diabetes.
Handled severe class imbalance & noise in image data
 - Worked under the guidance of Dr. Kishor Upla & Dr. Mukesh Zaveri
- **Text generation using Recursive & Recurrent Nets** *May 2015 - August 2015*
 - Developed a custom network - using a mix of Recurrent & Recursive neural networks created to generate text, built upon on Karpathy's Char-RNN

Skills

Languages: Python, R, Scala, C/C++, SQL, Latex. **Libraries:** TensorFlow, OpenCV, Scikit-Learn, Pandas, NLTK, Pyspark, GCP, Theano. **Platforms:** Apache Spark, Google Cloud Project, Azure Databricks, AWS