

# ABHISHEK NAGRECHA

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## SUMMARY

Ambitious and hardworking computer science graduate with around 2 years of well-rounded professional experience, eager to contribute developed knowledge in Software Development, Data Science, Machine Learning, and IT Support roles. Expertise in statistical programming languages (Python/R/SQL), Java, C++, Data Warehouse, and modern analytics stack. Adept at managing concurrent objectives to promote efficiency and influence positive outcomes. Open to relocation across Canada.

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, Java, C++, PL/SQL, HTML, JavaScript, CSS.
- **Databases:** MySQL, SQLite, PostgreSQL, Amazon RDS, Firebase, MongoDB, NoSQL.
- **Machine Learning:** TensorFlow, PyTorch, Keras, NumPy, NLTK, spaCy, Scikit-learn, Pandas, OpenCV, Apache Spark SQL.
- **Communication Tools:** Zoom, Slack, Google Hangouts, Microsoft Teams, Skype.
- **Cloud:** AWS, AWS EC2, AWS S3 Bucket, GCP.
- **Tools and Software:** Tableau, Power BI, Anaconda, Data Studio, REST API, Git, Jira, Google Analytics, Google Colab, LATEX.
- **Methodologies:** Agile, Scrum, Waterfall Model
- **IDE:** PyCharm, JupyterLab, Repl.it, Spyder, Eclipse, NetBeans, Code::Blocks, Sublime Text, Visual Studio, Android Studio.
- **Operating System:** Windows, macOS, Linux.

## EDUCATION

**Master of Science: Computer Science** **Aug 2019-May 2021**  
**Lakehead University** Thunder Bay, Canada

- **Relevant coursework:** Topics in Pattern Recognition, Topics in Smart Health Informatics, Computer Security and Research Methodology in Computer Science.
- Active member of Google Developer Group.

**Bachelor of Engineering: Computer Engineering** **May 2014-Jun 2018**  
**Sardar Vallabhbhai Patel Institute of Technology** Vasad, India

- **Relevant coursework:** Advanced Programming Concepts (JAVA, Python), Big Data Analytics, Machine Learning, Software Engineering, Data Mining & Business intelligence, and DBMS.
- Active member of Computer Society of India.

## PROFESSIONAL EXPERIENCE

**Data Engineer** **Apr 2021-Present**  
**Narcity Media Inc.** (*Python, Big Query, Data Studio, GTM, RebelMouse, Google Analytics*) Toronto, Canada

- Headed Data Visualization Dashboard development for 20 KPI's, reducing manual work by 90%
- As a part of the Product Team, advocated for innovative data solutions, that is at the forefront of the 1<sup>st</sup> party data advertising paradigm.
- Worked with other stakeholders to extract, standardize, aggregate, segment and transform data from a wide variety of data sources.

**Data Science Intern** **Mar 2021-May 2021**  
**The Sparks Foundation** (*Python, Mongo DB, Power BI, Google Analytics, Excel*) Ottawa, Canada

- Performed exploratory data analysis using Power BI and developed new ML models.
- Worked with real Big Data and transformed them into impactful data visualizations.

**Data Analyst** (*Python, R, MySQL, PL/SQL, Data Studio Tableau, AWS Lambda*) **Jul 2018 – Mar 2019**  
**Codium Techlabs Private Limited** Mumbai, India

- Interpreted data, analysed results using statistical techniques and provided ongoing status reports.
- Designed data schema and operated internal data warehouses and SQL/NoSQL database systems.
- Collaborated with Analysts, Engineers, and other internal partners to solve problems.

## CERTIFICATES

[\(View All\)](#)

### AWS Certified Cloud Practitioner

Issued by Amazon Web Services Training and Certification

Jan 2021- Jan 2024

## PUBLICATION

### TechRxiv Powered by IEEE

Text Summarization and Classification of Clinical Discharge Summaries using Deep Learning.

Apr 2020

## PROJECTS

[\(VIEW ALL\)](#)

### SARS-CoV-2 Detection Through Chest CT Screening Using Deep Learning

Sep 2020-Apr 2021

- **Tools/Library/Model:** Python 3, Google Colab Pro, deep CNN, VGG19, ResNet50, Keras, OpenCV, TensorFlow, NumPy, Pandas, Seaborn.
- **Description:** Research was aimed to accurately determine the condition of the patient from the CT scans. Used one of the largest datasets available, with 63849 CT scan slices from 377 patients.

### Alzheimer's Disease (AD) Classification Using Deep Learning Techniques

Jul 2020-Sep 2020

- **Tools/Library/Model:** Python 3, Google Colab, CNN, MLP, ANN, Keras, TensorFlow, OpenCV.
- **Description:** Research was aimed to provide an overview & critical assessment for early identification of AD. CNN was the most optimum Network, with a test accuracy of 0.91.

### Statistical Data Analysis of IMDB Movies

May 2020-Jul 2020

- **Tools/Data/Charts:** Tableau, Kaggle dataset, Scatter and Box plots, Packed bubbles, Histograms, Stacked bars, Area and Pie charts.
- **Description:** Primary aim was to obtain detailed understanding of relationship between different attributes and their box-office performance and budget.

### Text Summarization of Clinical Discharge Summaries

Jan 2020-May 2020

- **Tools/Library/Model:** Python 3, Google Colab, TensorFlow, Keras, NLTK, spaCy, CNN, GloVe, scikit-learn, NumPy, Pandas.
- **Description:** Classification of the EHR text, to automatically predict the diagnoses needed for a patient based on clinical notes. The dataset was pre-trained using GloVe and converted from word to vector using the TF-IDF method. The CNN model gave good performance.

### Student Course Registration System

Nov 2019-Jan 2020

- **Tools/IDE/Other:** Java, Eclipse, SQLite, JDBC API, sqlite-jdbc.
- **Description:** Developed specifically for university administration department and deals with the various activities related to the student course registration.

### Bank Telemarketing

Sep 2019-Dec 2019

- **Tools/Library/Model:** Python 3, PyCharm, scikit-learn, Random Forest, SVM, Logistic regression, KNN, Decision tree, MLP, SMOTE, Near Miss, Matplotlib, NumPy, Pandas.
- **Description:** Research was aimed to predict whether a client will subscribe to a bank deposit. Compared 6 ML models, RF gave best F1-score of 0.89 when dataset was balanced using SMOTE and normalized by MinMaxScale.

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## EXTRA CURRICULAR

- Data Entry Specialist
- Orientation Co-ordinator
- Student Volunteer

Feb 2021-Apr 2021

May 2015-Jun 2016

Dec 2015-Jan 2016

## TRANSFERABLE SKILLS

- Critical Thinking and Cultural humility.
- Positive Attitude and Altruistic.
- Team Building and Time Management.