

# ABHISHEK NAGRECHA

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## SUMMARY

Ambitious, focused, and hardworking Computer Science Graduate with over 1 year of well-rounded professional experience, eager to contribute developed knowledge in Software Development, Data Science and Machine Learning roles. Expertise in Python, Java, C++, SQL, and Business Intelligence tools. 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 Libraries:** TensorFlow, PyTorch, Keras, NumPy, NLTK, spaCy, Scikit-learn, Pandas, OpenCV.
- **Communication Tools:** Zoom, Slack, Google Hangouts, Microsoft Teams, Skype.
- **Cloud:** AWS, AWS EC2, AWS S3 Bucket, GCP.
- **Tools and Software:** Tableau, Power BI, Anaconda, Oracle BI, Data Studio, REST API, GitHub, Gurobi Optimizer, 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 and Linux.

## EDUCATION

**Master of Science in Computer Science (Project)** **Aug 2019-Apr 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 in Computer Engineering** **May 2014-Jun 2018**  
**Sardar Vallabhbhai Patel Institute of Technology** Vasad, India

- **Relevant coursework:** Big Data Analytics, Machine Learning, Software Engineering, Data Mining & Business intelligence, and DBMS.
- Active member of Computer Society of India.

## PROFESSIONAL EXPERIENCE

**Data Science Intern** **Mar 2021-Present**  
**The Sparks Foundation** Ottawa, Canada

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

**Data Analyst (Python, MySQL, 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.
- Enhanced the business by doing regular analysis of architectural plans, made social media updates using tools like AWS QuickSight and Data Studio .
- Collaborated with Analysts, Engineers, and other internal partners to solve problems.

## CERTIFICATES

[\(View All\)](#)

**AWS Certified Cloud Practitioner** **Jan 2021- Jan 2024**  
Issued by Amazon Web Services Training and Certification

## PUBLICATION

TechRxiv Powered by IEEE

Apr 2020

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

## PROJECTS

(VIEW ALL)

### Coronavirus Detection Through Chest CT Screening

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, Pandas, NumPy.*
- **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 MinMaxScaler

### Exploratory Data Analysis of Used Automobiles

Jul 2019-Oct 2019

- **Tools/Data/Charts:** *Python 3, JupyterLab, Pie and Bar charts, Histograms, Scatter and Box plot, Violin and 2D KDE plots, Multi-axis and Heatmaps*
- **Description:** Explored the used-car-dataset found on Kaggle with the task of predicting its price.

## EXTRA CURRICULAR

- Research Interviewer
- Orientation Co-ordinator
- Student Volunteer

Feb 2021-Present

May 2015-Jun 2016

Dec 2015-Jan 2016

## TRANSFERABLE SKILLS

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