ABHISHEK NAGRECHA

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SUMMARY

Ambitious, focused, and hardworking Computer Science Graduate with around 2 years 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, Data Warehouse 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, Sckit-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-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 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 Engineer   May 2021-Present
Narcity Media *(Python, Tag Manager, Data Studio, IO, Rebel Mouse, Google Analytics)* Toronto, Canada
- Building the infrastructure, data architecture, pipelines and reporting dashboards that powers the content and business decisions.
- Building and advocating for innovative data solutions—including an ecosystem that is at the forefront of the first-party data advertising paradigm.
- Working 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.

- 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 MinMaxScale.

EXTRA CURRICULAR

- Research Interviewer   Feb 2021-Apr 2021
- Orientation Co-ordinator   May 2015-Jun 2016
- Student Volunteer   Dec 2015-Jan 2016

TRANSFERABLE SKILLS

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