

# GOVIND PATWAL

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LinkedIn: [www.linkedin.com/in/govindpatwal](https://www.linkedin.com/in/govindpatwal) | GitHub: <https://github.com/Govind-Patwal>  
Portfolio: <https://govind-patwal.github.io>

## SUMMARY

Competent and Qualified Data Professional and Python 3 Programmer  
Finds great satisfaction in defining and solving problems, extracting insights from data, and improving code by refactoring.

## TECHNICAL SKILLS

**Language(s):** Python 3, SQL

**Applications/Tools/Libraries comfortable with:** pandas, random, pyspark, turtle, json, requests, requests\_get, copy, pytest, tensorflow, scikit-learn, PostgreSQL, Tableau

## OTHER SKILLS

- Oral, written and presentation: ability to explain technical topics to non-technical audience
- Working under pressure in fast-paced environments, meeting deadlines, and navigating competing priorities
- Team Work: being mentored and mentoring

## PROJECTS

**Coffee Production Quality Prediction:** [https://github.com/Govind-Patwal/coffee\\_production\\_v8\\_github\\_repo](https://github.com/Govind-Patwal/coffee_production_v8_github_repo)

Project objective(s) - Predict the quality of output from a Coffee Production plant, use the prediction to improve the quality of output and thus increase the profitability of the company

- Role: Sole author
- Language & Tools: Python 3, Random Forest ML, Jupyter Notebook, PostgreSQL, AWS RDS, Flask, Heroku

App URL: <https://coffee-prod-v8.herokuapp.com/>

**European Hotel Analysis:** [https://github.com/Govind-Patwal/European\\_Hotel\\_Analysis](https://github.com/Govind-Patwal/European_Hotel_Analysis)

Project objective(s) - help users find the best hotel; help hotel owners know how customer sentiments are changing over time; and determine the ML model that predicts the sentiments the best.

- Role: 1 of 3 contributors - I was responsible for ETL, ERD, Schema and DB creation, ML and DL NLP models and creating a model to predict sentiment based on input.
- Language & Tools: Python, PostgreSQL, AWS, PySpark, Google Colab, Tableau

**Movies ETL:** [https://github.com/Govind-Patwal/Movies\\_ETL](https://github.com/Govind-Patwal/Movies_ETL)

Project objective(s) - perform ETL (Extract-Transform-Load) on raw data from a scrape of Wikipedia for all movies released since 1990, Kaggle metadata and rating data from MovieLens website.

- Role: Sole author
- Language & Tools: Python, SQL, SQLAlchemy

**World Weather Analysis:**

[https://github.com/Govind-Patwal/World\\_Weather\\_Analysis\\_To\\_Create\\_Travel\\_Itinerary](https://github.com/Govind-Patwal/World_Weather_Analysis_To_Create_Travel_Itinerary)

Project objective(s) - suggest hotels and the travel routes between the corresponding cities based on the temperature range selected by a user

- Role: Sole author
- Language & Tools: Python, citipy, Weather Map API, gmaps API

## RELEVANT WORK EXPERIENCE

### **Data Science Co-op, RTS Automation**

*May 2021 - Present*

- Solving real-world problems using Machine Learning in Python

### **Python Consultant (Freelance), 34 Interactive**

*Jan 2021 - Present*

- Consulting on ETL projects involving Python and Pandas

## RELEVANT EDUCATION

### **Certificate in Data Analytics and Visualization, Grade: A+, University of Toronto**

*Dec 2020*

- Intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Machine Learning, and Deep Learning
- Completed 19 Solo projects and 1 group project

### **Python 3 Programming Specialization by University of Michigan on Coursera**

*April 2021*

- Topics covered: variables, conditionals, loops, functions, list comprehensions, lambda expressions, class inheritance
- Capstone Project: Optical character recognition (OCR) and object detection in images

### **Bachelor of Computer Applications, Indira Gandhi National Open University, New Delhi**

- Technical degree focused on preparing students for a career in the field of computer applications and software development
- Some subjects covered: Foundation course in Mathematics for Computing, Differential and Integral Calculus, Algebra, Analytical Geometry, DBMS, TCP/IP programming, Visual Basic, Data Structure through 'C' Programming and Data Structure, Intro to C++, C++ and Object Oriented Programming, Introduction to Internet Programming (JAVA, ACTIVEX)

## OTHER CERTIFICATES

- **Python**, kaggle
- **Pandas**, kaggle
- **Business Analytics with Excel**, Simplilearn
- **Data Science with R**, Simplilearn
- **Marketing Analytics and Customer Evaluation**, Indian Institute of Management - Kashipur
- **Statistics Foundations: 1,2, and 3**, Lynda.com
- **PMP** (Jan 2013-Jan 2016)

## LIFE-SAVING TRAININGS

- **Standard First Aid & CPR/AED Level C**, Canadian Red Cross
- **Fire Warden Training**, LRI

## HOBBIES AND INTERESTS

- **Running:** I have been participating in running competitions since Grade 11. Over time, I received coaching tips from Sandra Inoa (coach of Khalid Khannouchi, former WR holder for the Marathon) and finished 7 Half Marathons, with a personal best of 1:50:48. Have also coached 5 colleagues to finish a 5k run.
- **Adventure Activities:** Have done tandem paragliding, Scuba diving, Bungee jumping and Hiking. Plan to get a solo Paraglider licence.
- **Volunteering:** Volunteered to be on the First-Aid, and the Fire Warden Teams. I later accepted the position of the Fire-warden team lead. Responsibilities as a lead included ensuring adequate manpower, signing team members for training, creating fire-exit-plans, explaining procedures to be followed during a fire, and procuring and distributing Fire Warden kits.