GOVIND PATWAL

PYTHON PROGRAMMER | DATA ANALYST | ML ENGINEER

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Education

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

Sikkim Manipal University
MBA (Specialization - Information Systems)

Indira Gandhi National Open University
Bachelor of Computer Application

Undergraduate Courses

Mathematics for Computing
Differential and Integral Calculus
Algebra
Analytical Geometry
DBMS
TCP/IP programming
Visual Basic
Data Structure through 'C'
C' Programming and Data Structure
Intro to C++
C++ and Object Oriented Programming
Introduction to Internet Programming (JAVA, ACTIVEX)

Online Courses

Python 3 Programming Specialization, University of Michigan on Coursera, 2021

Python Certification, Kaggle, 2021

Pandas Certification, Kaggle, 2021

Executive Certificate in Marketing Analytics and Customer Valuation, Indian Institute of Management, 2017

Internship

RTS Automation, Toronto, Data-Science Intern   May 2021 - Present

RTS Automation provides Manufacturing Business Intelligence along with "Leading technologies" to achieve Manufacturing Operational Excellence.

I created a WebApp (based on Random Forest model) that can potentially save a customer CAD 1 Million a year.

My responsibilities at RTS Automation
- Translate RTS management and partner requirements and suggestions into IT solutions in Python
- Extract raw and unorganized data and transform into usable data using Pandas in Jupyter Notebook
- Create proof-of-concepts (POCs) in Python using Flask as the Framework, Random Forest as the ML model, PostgreSQL as the DB, and AWS RDS as the cloud data storage.
- Provide intuitive visualization using interactive bar, pie and time series graphs using plotly.express and plotly.graph_objects
- Deliver improvements in sprints of 1 or 2 weeks, many times by quickly learning new skills

Projects

Coffee Production Quality Prediction
Project objective(s): Predict the quality of output from a Coffee Production plant. Then 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

OCR with pytesseract and Face Detection with cv2
Project objective(s): Given a zipped file with Newspaper images in png format, extract text and images and store them in a Python dictionary. Then ask the user for a textual input, in case the input is found in the dictionary of words, return all the faces from the corresponding newspaper image.
- Role: Sole author
- Python libraries: pytesseract and cv2

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 cleaning the data, creating the ERD, Schema and DB, and finally creating the ML, DL, and NLP models to predict sentiments based on input.
- Language & Tools: Python, PostgreSQL, AWS, PySpark, Google Colab, Tableau

Statistics Foundations: 1, 2 and 3,
Lynda.com, 2017

Business Analytics with Excel,
Simplilearn, 2017

Data Science with R, Simplilearn, 2017

PMP, PMI, Certified 2013, Expired 2016

Technical Skills

Primary Programming Language
Python 3

Database
PostgreSQL

Python Libraries
pandas, matplotlib, plotly, pyspark, json, pytest, tensorflow, sklearn, psycopg2, sqlalchemy

Python Framework
Flask

Primary Source-Code Editor
VS Code

Primary Source Code Hosting Service
GitHub

Other Languages/Tools Used
MongoDB, Tableau, AWS RDS, S3, HTML, R, JavaScript, C++

Transferable Skills

Project Management (Agile & Waterfall)

Result-Oriented

Teamwork

Creative Problem-Solving

Attention to Detail

Team Management

Oral and Written Communication

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 MovieLens Database. Then rate the movies
- Role: Sole author
- Language & Tools: Python, SQL, SQLAlchemy

World Hotel Suggestor
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

Work Experience: as a Sales and Project Manager

Account Manager, Dell Technologies   2018 - Present
- Recognized and promoted two times in 3 years because of team-initiatives and consistently exceeding quota targets
- Volunteered to be amongst the first people to master a mission-critical new tool. Became the go-to for the tool resulting in increased adoption and success
- Volunteered to improve a major KPI of the team. Analysed past data, formulated a plan, convinced team- members of the why, ensured execution by weekly encouragement and accomplished a 23% increase in the KPI. Took the team on the top of the team standings for that KPI resulting in recognition from management
- Volunteered to be a First Aider (based on my CPR certification) and the Fire Warden Team Lead

Territory Account Manager, Adobe   2016 - 2018
- Awarded with Sales Achievement Award for consistently meeting sales quotas
- Recognized by the Business Unit (BU) Manager and awarded with the Top Customer Advocate Award for being the Number 1 rep in the area of customers satisfaction and feedback
- Volunteered to improve the voicemail call-back of the BU (Business Unit). Analysed past data, prepared scripts and explained them to the team. Resulted in 10% increase in voicemail call-backs

Sales Manager, DeFacto Infotech   2014 - 2016
- Acquired the most profitable and biggest customer for the company
- Increased new business by about 30%, response rate by about 20%, and conversion rate by about 10% by improving intra and inter team collaboration
- Volunteered to be a Scrum-master and helped keep the business of the biggest customer

Project Manager, Sebiz Infotech   2008 - 2014
- Successfully managed over 200 SEO projects under a multitude of Scope, Time, Cost, and Resource constraints
- Streamlined processes in my team resulting in decreasing idle time and doubling productivity in strategic areas
- Invented several new services to be offered to clients