Vandit Goel

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ACADEMIC QUALIFICATION

Bachelor of Technology in Electrical Engineering with Minor Specialization in Computer Science and Engineering, Punjab Engineering College, Chandigarh; 2020; CGPA: 6.8

WORK EXPERIENCE

Data Analyst, Optum Global Solutions (UHG), Noida, March 2023 – Present
Associate Data Analyst, Optum Global Solutions (UHG), Hyderabad, August 2021 – March 2023
Associate Software Engineer, Optum Global Solutions (UHG), Hyderabad, August 2020 – August 2021
Job Responsibilities:

- Creating algorithms for identification and processing of overpaid and fraudulent healthcare claims. **Processing over 200 million claims with potential recovery of $8 Billion annually.**
- Creating ML Models, PySpark Algorithms, SAS Algorithms and Python Applications to process healthcare claims.
- Migrating legacy applications hosted on on-prem servers to United Ulysses (U2) Framework (Kafka, Cassandra, PostgreSQL, Spark, Microsoft Azure)
- Training and leading a team for DevOps responsibilities using Azure Databricks.

PROJECTS

Title: ClickYAML, February – March 2023

- **Brief Description**: Python application published on pypi that acts as wrapper for standalone scripts. Can turn scripts into full blown command line applications. Link
- **Tools Used**: Python, Sphinx, PyTest, Tox, ReadTheDocs, GitHub Actions, PyPi, Click.

Title: Implants Fraud Prediction, March 2021
Location: Optum Global Solutions, Hyderabad
Team Size: 5

- **Brief Description**: Predictive machine learning model to identify Providers who are submitting fraudulent and overpriced claims for reimbursement by making use of Implants used in performing any surgical procedure. This model helps the Insurer **save 30%** of total paid amount which is nearly **$6 Million** annually.
- **Tools Used**:
  - Claims Data: Oracle Database
  - Label Encoder: Convert Categorical Data to Numeric
  - Feature Voting using combination of Chi-2, Recursive Feature Elimination, Logistic Regression, Random Forest
  - Classifier: AdaBoost

Title: Voice Controlled Robotic Nurse, September 2019 – February 2020
Location: Punjab Engineering College, Chandigarh
Team Size: 5

- **Brief Description**: Voice controlled Arduino Robot powered by Google Cloud
- **Individual Role**: Worked on the software design of the robot.
  - Creating the Android Application hosted on Google Firebase
  - Setting up the IOT services on Google Cloud
  - Developed the Google Text to Speech code that allows instructions to be given in both English and Hindi to the robot.
- **Tools Used:** Google App Engine, Google Speech-to-Text API, Google Database, Android SDK

Title: Earthquake Map Application, March 2018 – April 2019

- **Brief Description**: Interactive map application displaying real time Earthquake Data. Link
- **Tools Used**: Java, Unfolding Maps, Live RSS Feeds

CERTIFICATION

- AZ-900 Azure Fundamentals, 2023
- Data Science with Databricks for Data Analyst, 2023
- Applied Data Science with Python from University of Michigan, 2023
- AHM-250 Healthcare Management: An Introduction from AHIP, 2023

- The Unix Workbench from Johns Hopkins University, 2022
- SDET Python from Optum Tech University, 2021
- SAS Fundamentals, 2021
- Python 3 Programming from University of Michigan, 2020
- Kotlin for Java Developers from JetBrains, 2020
- Data Structures and Performance from UC San Diego, 2020
- Object Oriented Programming in Java from UC San Diego, 2020
- Java Programming from Duke University, 2018

TECHNICAL SKILLS
- Python, Base SAS, Linux/Unix (Shell Scripting), Java, Kotlin, Scala
- Azure Cloud, Azure Databricks, PySpark, Android SDK, Apache Kafka, AWS, Tensor Flow, Scikit-Learn, Android SDK, Git and GitHub, Kubernetes, Apache Airflow.
- MySQL, PostgreSQL, Oracle Database, Apache Cassandra, NoSQL
- OS: Linux, Unix, Windows.

ACHIEVEMENTS & RECOGINITION
- Received Talent in Spotlight Award 2022
- Received 6 Recognitions (Bravos) in 1 financial year, 2022
- Received Sustaining Edge Award for Q3 & Q4 2021
- Received H1 2021 Award, 2021
- Received Spot Award, 2021
- Secured 4th Position in Counter Strike: Global Offensive Team event organized by Chitkara University, 2017
- Secured 1st Position in Poem Competition organized by Speaker's Association and Study Circle (SAASC) Punjab Engineering College, Chandigarh, 2016

EXTRACURRICULAR ACTIVITIES
- Active volunteer in the G.I.V.E (Geographically Inclusive Volunteer Event). Volunteered for numerous drives organized to donate sports and educational equipment to underprivileged children
- Provided English, Maths and Science Tuitions to underprivileged children under the AABHA program of National Service Scheme, Punjab Engineering College Chandigarh
- Member of Core Committee, Entrepreneurship and Incubation Cell (EIC), Punjab Engineering College Chandigarh
- Member of Core Committee for Solar Energy Society of India (SESI), Punjab Engineering College Chandigarh
- Active player in the Optum Global Solutions Noida Cricket Team
- Active participant in online Chess tournaments on chess.com