

## Amit Wats

Python Developer & Data Engineering Consultant  
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### SUMMARY

A Python developer with a 4 years' experience in developing Python applications and machine learning applications.

My most recent experience was working in the Data Science team supporting Data Scientists in pre-processing, wrangling, analysis and visualisation of complex data from various sources including Big Data, databases, satellite imagery, ML processed data and live data. Extensively used tools like Python, Numpy, Pandas, Scikit-learn, Power BI for data processing. In addition, have used HTML5, CSS and React as front-end tools. Before moving onto data analysis I had a 12 years' experience as a Java developer, technical Business Analysis and a technical Project Manager.

### PRIMARY SKILLS

- Python 3 – Numpy, Pandas, Scikit Learn, SQLite3, Decorators, Pytest, Matplotlib, REST API's
- SQL – Postgress, MySQL, SQLite
- Web Scrapping- BeautifulSoup
- GCP (Google cloud platform) - Big Query, Stack Driver, Cloud SQL, Data Flow
- C#- Visual Studio
- OS- Ubuntu, MacOS, Windows
- CI/CD- Gitlab YAML scripting,
- Data Visualisation- Power BI, Matplotlib,
- Web- HTML 5, JS, Node.js, React

### SUPPORTING SKILLS

- Git, Docker
- Jira, Confluence
- Shell scripting, YAML Scripts
- Scrum, TDD

### PROFICIENCY LEVEL (out of 5)

Python + libraries – ★★★★★

SQL – ★★★

React - ★★½

HTML/CSS - ★★★½

### Certifications:

- Google Certified Data Engineer

### PROFESSIONAL EXPERIENCE:

#### Growing Data, Melbourne: May 2018-Present

*Python Data Consultant*

Development and support of Python based Machine Learning applications including the organisations ML products as well as those deployed on its client's premises. Application spaces were Auto Credit Decision Making, Satellite Imagery Data Extraction and Framework for ML pipeline transformations.

The primary technologies used are, Python based libraries (Numpy, Pandas, Scikit-learn), the Google Cloud Platform (Big Query, Cloud SQL, Kubernetes) and CI/CD platforms on GitLab. In addition to this have worked on developing frameworks for unit-test case using PyTest and MStest.

#### Responsibilities

- Python based development
- Implement requirements as per story assigned
- Data Extraction, Cleansing, Feature selection and processing
- Excel Data processing and Visualisation
- Pre-processing data from the flat-files, satellite images, web scrapped and data base resources
- Data Wrangling
- Developing backend components to enable machine learning pipeline processing using Classifiers like XG Boost, SVC, Random Forest and Decision Tree Classifier
- Writing unit test cases using PyTest and MS Test
- CI/CD pipeline scripting for GitLab
- Implementing front end pages using HTML5, CSS and React
- Producing dashboards in Power BI
- Following development using SCRUM.

#### Technologies

- Numpy, Pandas, Scikit Learn, Beautiful Soup, Flask, SQLite3, Decorators, Pytest, Matplotlib, REST API's, SQL GCP (Google cloud platform) - Big Query, Stack Driver, Cloud SQL, Git, C#, Power BI, Matplotlib, HTML5, JS, Node.js and React.

#### Infosys, Melbourne: June 2015- May 2017

*IT Consultant*

Worked on development of multiple analytics-based projects in the Service Assurance program of a large Australian, telecom organisation. The project work involved developing bespoke solutions for analysing fault ticket data, doing analysis using regression analysis, classification, Pareto charts, fish bone diagrams, etc.

My responsibilities were a mix of development, analysis, reporting and project management.

### Responsibilities

- Developing tools for data extraction, consolidation and visualisation.
- Visualisation of data extracted data from their NLP (Natural Language Processing) tool.
- Analysing ticketing data using tools like Python, Excel, Tableau, Splunk (for log analysis), Organisational tools.
- Building the data unifier tool in python to integrate data from multiple sources
- Developing adaptors to expose to multiple vendors of NBN

### Technologies

- Python, MySQL, HTML5, Excel, Splunk, Power BI, Tableau and JS.

### **Various Organisations, India:** between 2000 and 2014

#### *Project Management and Development*

Before a career break to transition into the Python and Data Science world I have worked in various IT product and services organisations like Infosys (2010-2017), Sapient (2005-2010) and some start-ups (2000-2005) on developing standard web-based applications, and database application-based projects. I have also played the role of a Business Analyst and a Project Manager during this period.