

**EXECUTIVE SUMMARY**

Highly analytical and process oriented Computer Engineer, currently pursuing Data Science and Analytics master's degree Aiming to utilize my strong prioritization skills and analytical ability to achieve the goals of your company.

**PROFESSIONAL SKILLS**

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- Python / PySpark / JupyterHub
- AWS S3/Redshift/Data Pipeline
- R language / Java / C++ / VBS
- Diadem/Data Analysis
- HP ALM/QTP/JIRA/Agile development
- Matlab / Simulink
- Time series data / Canape / Diadem
- Machine Learning
- PowerBI
- PSQL Server 2014/ SQL

**EDUCATION**

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**Msc Data Science and Analytics**

Royal Holloway University of London

**Sep 2018 – Sep 2020**

Egham, UK

- Modules: Data Analysis, Machine Learning, Large Scale Data Processing, Visualization and Exploratory Analysis, Business Intelligence, Database Management, Principles of programming and Computation.
- Gained good understanding of the relationship between a specific problem and the methods used to solve the problem.

**Computer Engineering**

R.S.C.O.E. Pune University

**June 2014 – June 2017**

Pune, India

- Achieved Silver medal | University Ranker (82.60%)
- Modules: Data structure and management, Computer Organization, Data algorithm and design, Cloud computing, Operating system, Computer network, Theory of computation.

**PROFESSIONAL SKILLS DEMONSTRATED**

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**Caterpillar Perkins Engine, Peterborough****June 2019 - Present**

Perkins Engines Company Limited, a subsidiary of Caterpillar Inc(Headquarters USA), is primarily a diesel engine manufacturer for several markets including agricultural, construction, material handling, power generation and industrial. It was established in Peterborough, England, in 1932.

**Data Scientist**

Analysed Raw Machine data to find out worst performing machines using DIAdem data tool.  
Developed automated software to reduce the manual efforts and optimize the testing process simulated in MATLAB.  
Performed Data mining activities to pull out data for in Aws to create pipeline using AWS data pipeline and using DynamoDB on EC2 server.

- Python / JupyterHub

- Developing base software code in python to work out the conditions satisfying automated process. I developed a software which detects good or bad fuel injector while screening each injector in testing
- Pre processed huge machine data in JupyterHub to find out the correct visualization of unusual behaviour of data for feature extraction.
- **Machine learning using Matlab / Simulink:**
  - Developed and simulated a software for screening EGR valves for 1200,900 and 400 series engines. Created flash files to work on test beds of engines.
  - I developed a software which shows the learn(sinusoidal wave) based of past learned supervised learning – Decision Tree model and detects if the valve is behaving correctly or not. Deployed the software integrating with canape software to automate the testing process.
- **AWS Data Pipeline:**
  - Performed Data mining activities by creating various different Data Pipelines, which control the flow of our ETL solutions, in JSON
  - We use Jenkins to deploy AWS Data Pipelines
- **PySpark:**
  - As part of course module “Large Scale Data Processing” in masters used Python Spark to speed up loading and transforming of large data sets into AWS Redshift database
- **Data Warehousing:**
  - As part of course module “Business Intelligence” in masters implemented and developed a new star schema in AWS Redshift while maintaining the existing SQL Server 2014 and Data Warehouse for inhouse university project.
- **PowerBI:**
  - Went on a PowerBI course which helped me get an understanding of developing PowerBi reports and preparing the data for reporting.
  - Help the reporting team in developing reports from time to time to mange Perkin’s MYNPI open and closed issues.
- **Diadem:**
  - Went on intense Diadem training from the company which helped me get an understanding of developing reports and preparing data for reporting for huge amount of Machine data.
  - Presented reports as the base proofs for worst performing machine and those reports helped to gain the insight of machine data used as test data for developed softwares.

## **Cybage Software Pvt. Ltd.**

**July 2017- August 2018**

Cybage Software Pvt. Ltd. is an information technology consulting company founded in 1995, located in Pune,India. The company provides software application development and maintenance, digital services, UX design, content services, UX design, content services and other support services.

## **Associate Engineer**

Gained experience working on different projects, helping to manage stakeholder expectations and shadow people from different levels. This allowed me to gain an overall understanding of the business, its various departments and boost my confidence in building relationships within the working environment.

- **Data Analysis:**

- Worked as a shadow Junior Data Analyst for an inhouse project of company "Decision Mines". It is a dashboard driven system that guides senior managers to make an intelligent decision based on data.
- Designed and maintained database to manage data analysis efforts. Presented data and insights to management.

- **Quality Assurance:**

- Worked as Automation QA engineer to automat test scripts for an e-commerce website "Techdata" where Digital products are sold like Microsoft office, Azure, Cisco. Worked on HP ALM, Quick Test Professional (QTP), JIRA business tools.
- Gained knowledge in all stages of Software Testing Life Cycle (STLC).

- **Full stack developer:**

- Worked under Billing team of Techdata for 3 months to develop and deploy new functionality on the existing framework to present at an event "Inspire" sponsored by Microsoft corporation at USA.

## **Inditronics Software Pvt. Ltd.**

**June 2016 - June 2017**

Inditronics is a product development company offers electronics design, prototyping & manufacturing services.

### **Java Developer Intern**

- **Software Engineering:**

- Worked as Java developer to complete Bachelor Degree's Final project sponsored by Inditronics software pvt. Ltd.
- The project "Smart surveillance system and Multiple people detection,Tracking and behaviour analysis" is to detect unusual activity or suspicious behaviour among multiple people using video surveillance and notify user via email.

## **KASPA's Dessert**

**October 2018 - May 2019**

Kaspa's are a chain of exciting new dessert houses that offer the world's favourite hot and cold desserts under one roof.

### **Customer Assistant**

Assisting customers and making sure their food experience is enjoyable for customer retention.

- **Communication:**

- Interacted with customers to take down the orders and handled payments.

- **Organisation:**

- Effectively applied organizational skills and time management techniques by prioritizing tasks and allocating specific time for specific tasks while making food.
- Breaking up bigger tasks such as evening shift routine into manageable tasks and grouping similar tasks together to limit transition time.

- **Teamwork:**

- Worked in a diverse team to run the store and achieve shop's objectives

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## **Patent in India**

### **A patent on "Biometric based Dynamic Password Allocator"**

**Head Developer – Python**

**June 2015 - Dec 2015**

The Biometrics based Dynamic Password Allocator software addresses the major issue of hacking online accounts as well as devices (PDA's). This algorithm relates to a multi-level cyber protection where biometric verification and device ID mapping is added to password authentication and which changes per unit time, making it extremely difficult to be hacked. The continuous updating of password along with the added biometric verification provides a high-end security for personal accounts. This considerably reduces the risk of cyber hacking.

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## **Certification and Extra curricular**

### **Employability Skill Development:**

Completed 300 hours of Core Java and advance Java and Soft skill training provided by Zensar Technologies.

### **Python Certification:**

Completed python beginners course provided by Data Camp.

### **R Certification:**

Completed R Programming for beginners course provided by Big Data University.

### **Departmental Head:**

Budget Head and Core committee member of college technical event 'Innovision'. Participated in Drama state level competitions like 'Purushottam' and 'Firodiya' Karandak.

### **Social work:**

Actively working towards community service with 'CybageAasha' for the past one year in their ventures like eye checkup camps, blood donation drives, teaching English and basic computer functions to the under privileged children.

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## **OTHER RELEVANT INFORMATION**

**Languages:** Hindi (Fluency), Marathi (Fluency), Urdu

**Computer Skills:** MS Office, Spreadsheets,

**Inter Personal Skills:** Good presentation skills, Works well in a team, Willingness to learn, Comprehensive problem-solving abilities, ability to deal with people