# Vivek Chaturvedi

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## Research Data Scientist

Data Science professional with 10 years of experience in data intensive solutions. Overall architect responsibilities including road maps, leadership, planning, technical innovation, development, performance. Provide technical and process leadership for projects, defining and documenting information integrations between systems and aligning project. Provide technical leadership and governance of the big data, analytics, business intelligence team and the implementation of the solution with the machine learning and deep learning. Proficient in **python**, c#, object oriented languages.

**Responsibilities**

* Responsible for assisting Financial Planning and Analytics team by solving descriptive, inquisitive, predictive and prescriptive problems in a holistic manner and enabling better decision making.
* Manage parallel running models of different teams, mentoring and resolving issues related with performance.
* Driving Weekly and Quarterly Business Reviews with clients to understand business requirements. Providing Short and Long Term forecast by developing a predictive model with multiple external factors and controllable business inputs.
* Experienced in training Data Science/Machine Learning and Deep learning.
* Taking sign-off from business for the POC, differentiating task and Assembling of Task.
* **Performance tuning of delayed processes**  and recovery mechanism of project.
* Analyzed the data using python, Tableau and PowerBI.
* Task assignment, bug tracking and sprint making on agile framework using Jira.

**Profile**

* Hands on with optimizing and tuning the **Python** code. Sequential and parallel programming.
* Experienced in supervised and unsupervised Machine Learning models.
* Hands on with **CNN, LSTM, Encoder-Decoder models** and other neural network models.
* Proficient in BI, Big Data problems (Hadoop), Hands on experience on **Hive, Sqoop, Spark2.x**
* **Worked on Spark-mlib for analyzing different supervised and unsupervised models**
* Hands on OCR, image processing using **openCV.**
* Hands on different machine learning framework like **Tensorflow, Keras and scikit-learn**.
* Good understanding in database and BI concepts.
* Experience with all the phases of project development life cycle and good in Agile Development.
* Project execution experience in consulting organization and product based environment.
* Proficient in **KDD, SEMMA and CRISP-DM** frameworks.
* Good experience in team management activities on both Onshore and Offshore models
* Played various roles as application lead, architect and support engineer and have ability to learn and implement new technologies quickly.

**Career Contours**

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| **Organization** | **Designation** | **Role** | **Duration** |
| HCL technologies | Tech- Lead | Data Scientist | Jul 2017 till date |
| Tata Consultancy Services | IT Analyst | IT Analyst | Oct 2015 to Jul 2017 |
| Birlasoft (India) Limited. | Sr.Software Engineer | Technical Lead | Aug-2012 to Sep-2015 |
| Ebix Asia SEZ Pvt. Ltd. | System Analyst | Programmer | Nov-2010 to Aug-2012 |
| Servitium IT Solution Pvt.Ltd | Software Engineer | Developer | Oct-2009 to Sep-2010 |

**Domain Experiences**

**Telecommunication** with Nokia

**Banking and financial services** with Deutsche Bank and Nationwide building society(UK)

**Finance with General Electric**(GE)

**Insurance** with WMIC

**Gaming** with Microsoft(Xbox GTSC)

**Education**

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| --- | --- | --- | --- |
| **Course** | **College** | **University** | **Year of Passing** |
| M.Tech | BITS Pilani | BITS | Pursuing |
| PG-Diploma | CDAC Noida | GGSIPU | 2009 |
| Bachelor in Technology (CSE) | JSS Noida | UPTU | 2007 |
| Diploma (3 year) in (M.CAD) | M.P.Polytechnic | BTEUP | 2004 |
| 12th | Army School | CBSE | 2001 |
| 10th | Army School | CBSE | 1999 |

**Technical Skill**

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| --- | --- |
| **Technologies** | DataScience, Machine Learning, Deep Learning, Computer Vision. |
| **Languages** | **Python**,Java, C#, C and C++ |
| **RDBMS** | Sql Server, Oracle, Cassendra. |
| **Computer vision libraries** | OpenCV, dlib |
| **Web Technology** | ASP.Net ,Django, Flask |
| **Deep Learning libraries** | Tensorflow, Keras, NNabla, Distributed Tensorflow, Tensorflow Serving. |
| **Release Management Tool** | Visual Source Safe, TFS, StarTeam, SVN, Git |
| **3d-Design Tool** | Auto-cad, Catia |
| **Big Data** | Hadoop, HDFS, Map Reduce, Hive, Sqoop, flume, Kibana, Spark-Mlib |
| **Python Libraries** | NumPy, Pandas, MatplotLib.SkLearn, |
| **Machine Learning** | Tensorflow, scikit-Learn. NLTK,Keras,AI-Gym. |

**Machine learning Models**

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| --- | --- | --- | --- |
| **Supervised** | **Unsupervised** | **Computer Vision** | **Deep Learning** |
| Regression | K-Means | GMM | LSTM-Seq-to-Seq |
| Logistic regression | NER | Haar cascade | Encoder Decoder |
| Decision Trees | Summarization | CNN | Capsule Network |

**Key Project Handled**

**Project Name: PRG**

**Domain: Banking(DB)**

**Technologies: PySpark, Jira, Maven, Python, Oracle, Cloudera.**

**Role: Big Data Developer**

Migration of Sql framework to Spark driven process using sparkSql. Performance tuned spark jobs

**Project Name: KPI detection**

**Domain: POC**

**Technologies: Python, Dash, Flask, Sklearn,**

**Role: Data Scientist**

There are various KPI involved in an analysis, we have derived a unique technique to find the key KPI, using machine learning technique. This application will also load , process and build a model using Python/dash –web framework.

**Project Name: Text Summarization**

**Domain: Telecom**

**Technologies: Python, OpenCV Tensorflow, Deep learning models, keras, Big Data, spark mlib.**

**Role: Data Scientist**

In telecom domain every day there are millions of emails transferred which have different issues. This project performs NLP and clustering on the input Data. Created different models and integrated with Flask.

**Project Name: NER modelling/Text to speech**

**Domain: NLP**

**Technologies: Python, Spacy, Tensorflow,Tachotron,Cloud, Bigdata.**

**Role: Analyst**

In this project we have to identify the name, address and other personal details of a person.

**Project Name: E-mail filtering, Signature Analysis, Text Analysis.**

**Domain: IT**

**Technologies: Python, Sci-kit learn, Tensorflow, NLTK, Deep learning models, keras.**

**Role: Analyst.**

Daily we receive a lot of email across different department and the process is to validate the emails using the machine learning.

**Project Name: Cash Flow Automation**

**Domain: Finance**

**Technologies: Python,SKLearn, Tensorflow**

**Role: Tech-Lead**

In this project we make the cash flow mechanism accurate by building different models in the system.(Kmeans, Regression models, Haar cascade)

**Project Name: HR Data Analysis**

**Domain: HR**

**Client: Internal**

**Technologies: Python, Matplotlib, Pandas,SkLearn.**

**Role: System Analyst.**

**Description:** Human Resources are critical resources of any organization. Organizations spend huge amount of time and money to hire their employees. It is a huge loss for companies if employees leave, especially the key resources. So if HR can predict weather employees are at risk for leaving the company, it will allow them to identify the attrition risks and help understand and provide necessary support to retain those employees or do preventive hiring to minimize the impact to the organization.

**Responsibilities:**

* Data cleaning, Data Exploration, Model Creation for classification.
* Logistic, decision tree and other modelling implementation and Improving the Model accuracy using AUC technique.
* To improve accuracy using Multiple sampling technique

**Project Name: GTSC Self. (Silverlight E-Learning Framework)**

**Domain: E-Learning**

**Technologies: .Net 3.5, XML, Silverlight, Expression Blend,Java**

**Role: Developer**

**Description:**

SELF is an assessment tool for E-Learning in which the different Xap of Silverlight has been loaded for assessment of user; every xap is used for a unique examination and used for the assessment of end user.

**Responsibilities:**

* Created the Xap of Silverlight.
* Core responsibilities for code and logic of templates.

**Achievements & Extra-curricular Activities**

**1.**   **Achievements**

a. Winner of Hackathon conducted by **IBM** for designing a tool **“Chota rasta” for predicting the minimum distance for cabs,**

b-Received the award for “**Best Synergy Team”** of the Quarter in Birlasoft while working as a tech- lead.

c-Received **BrandonHall Gold Award** for Best Use of Games for Learning in 2010.

**2.**   **Corporate Trainer:** Delivered corporate training on Python, Data Science and machine learning in CMM5 level companies.

**Personal Details**

http://www.machineintellegence.com/about/