

Rahul Kumar

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Summary

- Prime area of experience has been Development, Data Science and Data Analytics.
- Having 10 years of experience in NLP and Data Science, worked closely with researchers. Having 4 years of Data Analytics experience.
- 5 years experience in Data Science and Semantic AI systems.
- My current role is Solution Architect in Zensar Research Lab.
- Highly motivated, positive and goal-oriented, with analytical approach, conceptualization as well as the ability to build and lead effective teams.

Core Skills

- Design Thinking
- Architectural Design
- Excellent Communication
- Analytical Ability
- Problem Solving

Experience

AI Solution Architect

Zensar Technologies • Pune, Maharashtra

05/2021 - Present

Project : Zeva

Description - A platform that allows to create Conversational Systems for any purpose like FAQ and equipped with self learning machine learning models.

Role - As a Solution Architect

Skills Used - Python, NLP, Redis, Machine Learning, RASA

Project : ZenVault

Description – It implements cognitive search using Knowledge graph and provides the most relevant search results considering the entities and their relationships.

Role - As a Solution Architect

Skills Used - Python, NLP, Redis, Machine Learning, KG

Assistant Consultant

Tata Consultancy Services (TCS) • Noida, Uttar Pradesh

02/2011 - 05/2021

Project : KNADIA

Description - A tool combines the flavour of virtual assistant and knowledge synthesis and allows to create Conversational Systems for any purpose and equipped with self learning machine learning models.

Role - As a Technical Architect and Lead

1. Service Desk Automation: Developed end-to-end Conversational Helpdesk based on Deep NLP and Speech Processing that allows user to create a conversational helpdesk system provided we have history tickets data. It provides a natural

language platform where user can simply interact and describe the issues and system will take care of the tickets logging activity under correct categories. Core components of Conversational Helpdesk: a) Reverse Flow Training b) Self Service Steps Recommendation c) TF-IDF and Deep learning based category predictions d) External Data extractors

2. Knowledge Synthesis : Knowledge Management and Information Retrieval Based on Knowledge Graphs and Semantic AI.

Developed the core engine modules of Knowledge synthesis:

a)Source Identification b) Target Identification c) Path Identification and Traversal of Knowledge Graph d) Entity Resolution e) Data Harvesting

Skills Used - Python, NLP, Redis, Machine Learning, HTML5, D3, Pandas

Project : TeXcape(Technology Landscaping) (October 2011 – April 2016)

Description - TeXcape is a technology landscaping tool that helps TCS top management to decide the following via data analytic reports and graphs a) Research road map as compared to global research, b) Risk profile for TCS, c) Competitive analysis, d) TCS vs GLOBAL Research, e) TCS Portfolio in terms of patents, f) Opportunities and Risk for TCS ,g) Co-innovation Partners, h) Research Topics, i) Hot topics, j) Emerging Topics, k) Venture Capital, l) Research Topics Potential

Role - As a Team Leader helped in managing the resources and coordinating between team members.Developed the core engine of the tool for all modules mentioned in description using LDA Topic Modelling, NLP techniques etc.

Skills Used - J2EE, Apache Solr, Apache Mahout, Cassandra, D3, D3 plus, JQuery, Bootstrap, HTML5, CSS, CanvasJS, Selenium Crawler, Quartz.

Skills

- | | |
|--------------------|-----------------------|
| • python | • NLP |
| • Machine Learning | • Architecture Design |
| • Agile | • JAVA |
| • J2EE | • HTML5 |
| • CSS | • Javascript |
| • SQL | • JQuery |
| • D3 | • D3 plus |
| • Apache Solr | • Apache Mahout |
| • UNIX | • Selenium Crawler |

Education

Graduation(B.Tech)

Computer Science and Engineering • Ghaziabad, Uttar Pradesh

07/2010

- College Topper in B.tech
- Aggregate percentage 80.66

Intermediate

Kendriya Vidyalaya(CBSE) • Ghaziabad, Uttar Pradesh

04/2006

- Aggregate percentage 77.20

High School

Aggregate percentage 69.20

Achievements

- Special Initiative Award for TeXcape Project
- Service Desk system is live for Dubai client
- Knowledge Synthesis Conversational system is live in TCS
- Oracle JAVA certified Professional
- GATE qualified.