

Sonal Jharkharia

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EXPERIENCE

ACCENTURE | DATA SCIENCE CONSULTANT

Aug 2021 – Present | Pune, Maharashtra

- **Gen-AI based Assessment Generation** by utilizing different Prompt engineering techniques to generate MCQs based of skill, topics, and complexity level incorporating the contextual embedding from documentation. Fully automated solution with human-in-the-loop only for validation reducing the TAT from 8-10 weeks to 7-8 days.
- **Talent Matching using Gen-AI** an end-to-end solution to generate job descriptions, parse candidate resumes and job descriptions to generate a match score and reasoning based on skill, work experience, education, industry and domain knowledge etc.
- **Skill recommendation engine** to rank top 10 personalized skills incorporating business needs, skill trends, skill ontology and current proficiency for more than 2 lakh employees at a monthly cadence.
- **Attrition prediction model** to predict employees with high flight risk based on historical trends and correlation of tenure, engagement and compensation etc with attrition.
- **HR Dashboard Suite** for a product based tech giant with more than 10K employees for real-time reporting on Performance Cycle, Attrition, Remote Work Program, Organisation Shape, Employee Lifecycle, Talent and Performance, reporting company and program metrics to support decision-making by HRBPs and Exec Leaders.

UNITED HEALTH GROUP | SENIOR SOFTWARE ENGINEER

May 2018 – Aug 2021 | Gurugram, Haryana

- **Health Insurance Claim prediction** model for acceptance/rejection classification based on historical data in PL/SQL and response status using Random Forest model.

LIBSYS LIMITED | SOFTWARE ENGINEER

July 2015 – Apr 2018 | Gurugram, Haryana

- Component library layering angular material components to be consumed in the development of in-house portals following a uniform User Interface and design pattern.

PROJECTS

OMDNA - NEWSROOM | MACHINE LEARNING ENGINEER

Feb 2021 – March 2021 | Online

- Collaborated with 52 changemakers from 22 countries in an 8-week project on an classification model that scores online news articles for hate speech, political bias, click-bait and claim verification.

COLLAB-LAB | NLP ENGINEER

Oct 2020 – Jan 2021 | Online

- Conversation AI chat bot model in Ed-Tech domain for secondary education focused on theory, question-answering and quizzes.
- Fine-tuning DistilBERT for Academic Question Answering on custom data prepared by the content team and keyword extraction using KeyBERT for topic modelling.
- Integration with Telegram-API for the chat bot UI for the first cut using FAST Api in the background to fetch model predictions.

EDUCATION

IIT, KANPUR

SUMMER INTERNSHIP

March 2020 - July 2020 | Classroom
Applied Machine Learning and Data Science

DEHRADUN INSTITUTE OF TECHNOLOGY

BACHELOR OF TECHNOLOGY IN
COMPUTER SCIENCE
July 2015 | Dehradun, UK

SKILLS

CERTIFICATION

Prompt Engineering for Developers
AWS Solutions Architect Associate

PROGRAMMING

Python • JavaScript • Java • C
Angular • CSS • HTML • Data Structure
PI/SQL • PostGreSQL • Oracle 11g

TECHNOLOGY

Gen-AI • LLM • Prompt Engineering
Machine Learning • Deep Learning • NLP
NumPy • NLTK • Pandas • Scikit-Learn
AWS - EC2, RDS, S3 • Jenkins • Docker
Power BI • Tableau • Airflow • Rundeck

OTHERS

Git • Databricks • Advanced MS Excel
UNIX • Windows • IOS • JIRA • Agile
Anaconda • Visual Studio Code • IntelliJ

ACHIEVEMENTS

- 30 Bravo Awards in UHG Core Values
- "2021 Q1 Star Award" in current portfolio

EXTRA-CURRICULAR

Head of Women's Forum - CSR Initiative
for Applied AI, Accenture
U-Care (CSR initiative of United Health
Group)
Ed-Support Volunteer in 'Make a
Difference'
Center Head in NGO 'Donate An Hour'

LINKS

Github:// [sonal-jharkharia](#)
LinkedIn:// [sonal-jharkharia](#)