SMART INDIA HACKATHON 2024

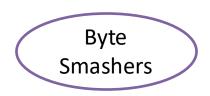


Ministry of Defence/DRDO

- Problem Statement ID SIH1653
- Problem Statement Title Web based Selector-Applicant Simulation

Software

- Theme Smart Automation
- PS Category- Software
- Team ID- 13243
- Team Name- BYTE SMASHERS



IDEA TITLE



Automating interview Process with a Real-Life Board Room Experience all by a single platform:

Logo:



SUMMARY:

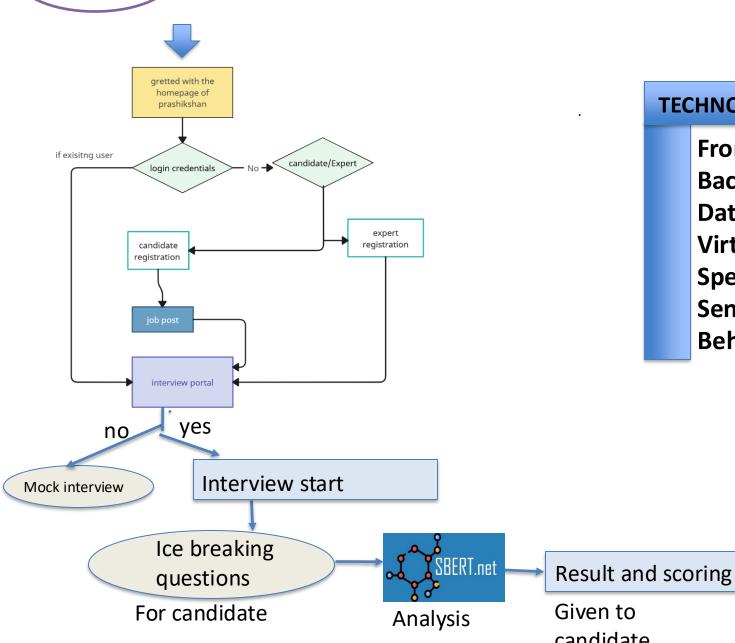
- **PraShikshan** is an automated web-based software that streamlines the interview process.
- It begins with engaging ice-breaking questions, followed by expert evaluations in a virtual
- boardroom. The platform tracks candidate responses and body language, generating performance reports for efficient, data-driven hiring.

For brief explanation of Idea solution, follow the link: https://youtube.com/watch?v=AWkJEKx1WzU&feature=shared

Byte Smashers

TECHNICAL APPROACH





TECHNOLOGIES USED:

Front End ->HTML, CSS, Javascript

Backend- >NODEJS

DataBase Management-> MongoDB, MySQL

Virtual Boardroom-> WebRTC, SEB

Speech-Text-> Google transcript

Sentence Analysing-> SBERT

Behavior Analysis-> NLP, SBERT

From candidate

Redirected to homepage

End

End

Byte Smashers

FEASIBILITY AND VIABILITY



- · Technical feasibility
- · Operational feasibility
- · Scalability
- Adaptability

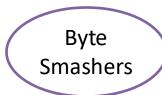
Feasibilities

Potential Challenges & Risks

- · Accuracy of scoring
- · Resource requirement/Effective maintenence
- · Performance degradation
- · Technology advancement

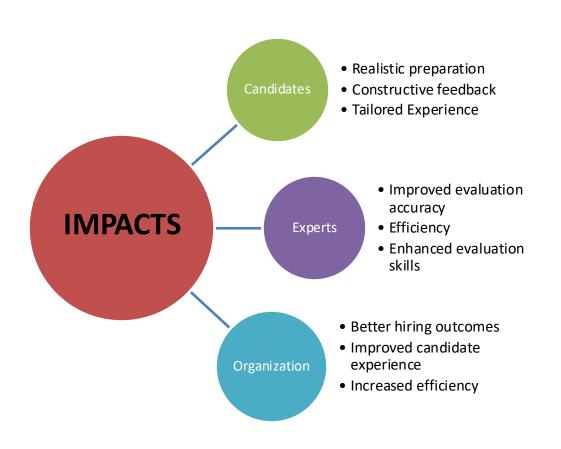
- · Use of advance NLP and MLM
- Continuous refining and training of model based on feedback
- · Defining clear KPI along with feedback mechanism
- Regulatory changes with respect to new emerging technology.

Strategies to overcome these challenges



IMPACT AND BENEFITS







Social

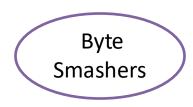
- Fairness and Inclusivity
- Professional Development

Economical

- Cost Efficiency
- Better Hiring decisions

Environmental

- Reduced Physical Meetings
- Optimized Resource Use



RESEARCH AND REFERENCES



- 1. <u>Using a virtual reality interview simulator to explore factors influencing people's behavior | Virtual Reality (springer.com)</u>
- 2. <u>A Comprehensive Study and Implementation of the Mock Interview Simulator with AI and Pose-Based Interaction | IEEE Conference Publication | IEEE Xplore</u>
- 3. How to Conduct a Feasibility Study: Key Steps & Examples (simplifearn.com)
- 4. How to Conduct Virtual Interviews? (wecreateproblems.com)
- 5. <u>SentenceTransformers Documentation Sentence Transformers</u> documentation (sbert.net)