

# Vaibhav Gulati

+91-9717295216 · [gulvaibhav20@gmail.com](mailto:gulvaibhav20@gmail.com)  
[linkedin.com/in/vaibhav-gulati](https://www.linkedin.com/in/vaibhav-gulati) · [github.com/gulvaibhav20](https://github.com/gulvaibhav20)

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## SOFTWARE ENGINEER

- Diligent and versatile Software Engineer with 2 years of experience developing innovative software solutions and crafting clear, user-friendly documentations.
  - Certified in IT Automation by Google and Azure AZ-900, I have a strong foundation in data science, data engineering, software development, and generative-AI.
  - Published researcher with two impactful papers on extractive text summarization and automated soft-skills assessment, showcasing my commitment to innovation and cutting-edge technologies.
  - Adept at understanding the intricate data flow within systems, I am poised to contribute my technical proficiency, creativity, and problem-solving skills to a dynamic team, with a keen interest in exploring AI, software development, and technical writing opportunities.
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## KEY COMPETENCIES

Software Development  
Prompt Engineering  
Database Design

Data Flow Understanding  
Research and Development  
Product Development Planning

Team leadership  
Communication  
Versatility & Analytical Thinking

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## PROFESSIONAL EXPERIENCE

### Incedo Inc.

Jul 2022 - Present

#### Software Engineer

Experienced Software Engineer at Incedo Inc, adept at seamlessly transitioning between backend development and cutting-edge Python-driven **data science** initiatives. **Recognized** for spearheading the successful **migration of databases** and crafting innovative solution to diverse projects, from developing intricate Azure-based ETL pipelines to driving the evolution of Incedo Lighthouse's decision **automation platform** through the integration of **AI-driven** conversational bots, functionalities and sophisticated **data analysis** frameworks.

- Played a pivotal role in the evolution of the Lighthouse platform, from backend development to a focus on **Data Science**, and **Gen-AI** applications.
- Delivered solutions that addressed client needs, particularly in enhancing visibility into underlying accounts within **KPI-Trees**, building a conversational AI, and developing an AI-driven dynamic KPI-Tree generation module.
- Engineered several **Gen-AI** based modules including an AI-driven KPI-Tree generation module that utilizes **RASA** conversational AI framework, **LLMs**, and **PySpark** to dynamically generate business usecase centric KPI-Trees in the Incedo Lighthouse's decision automation platform.
- Led the optimization, enhancement, and refactoring of legacy data-science framework, leveraging **PySpark** for distributed data transformation of **BigData**. Achieved remarkable results, reducing run-time by **500%** on very large datasets (**60M+**), all while maintaining strict adherence to industry standards and coding guidelines.
- Exhibited ingenuity by building a sophisticated code quality dashboard using Python **batch-jobs** and **Redash**, automating the process of monitoring QA processes and thorough **code quality analysis**.
- Spearheaded the development of a robust internal **request management system** using **SpringBoot**, **PySpark**, **AWS**, and **SQL**, enabling seamless request-based data export functionality within the platform.
- Led **PostgreSQL** to **Oracle** database migration, ensuring **schema migration** and **data sanity** checks.
- Developed **dataset generation scripts** for large KPI-Trees and implemented trendline data generation in the platform.

## Scaler

Nov 2021 - Aug 2022

Freelance Technical Writer

- Designed and authored several user-friendly technical articles for the Scaler Topics platform. Reached **17.5k** readers and helped them in their learning journey.

## Cognizant

Jan 2022 - Apr 2022

Programmer Analyst Trainee

- Excelled as a Programmer Analyst Trainee at Cognizant Inc., making significant contributions during the Gen-C Elevate Internship program. Successfully completed rigorous internship trainings, mastering essential technical skills, including **SQL, Relational database design, Java, Data warehousing, ETL, and Informatica.**

## WarpSpeed Technologies Pvt. Ltd.

Aug 2021 - Oct 2021

Backend Developer Intern

- Led the development of Queless, a community-based online ordering platform, using **Django, RESTful APIs, and MySQL.** Ensured seamless integration of features to provide an interactive and efficient ordering experience.
- Delivered a high-quality, scalable, and user-friendly solution, receiving positive feedback from users and stakeholders.

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## EDUCATION

### Bharati Vidyapeeth College of Engineering

New Delhi (2018-2022)

Bachelors of Technology (Computer Science)

9.36 (CGPA)

### Kendriya Vidyalaya A.F.S.

Tughlakabad, Delhi (2017-2018)

Senior Secondary (Class 12th)

91.1% (Percentage)

### Kendriya Vidyalaya No.1

Faridabad, Haryana (2015-2016)

Secondary School (Class 10th)

10 (CGPA)

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## RESEARCH & PROJECTS

### Automated Soft Skills Evaluator

[Publication Link](#)

Python, OpenCV, Speech-To-Text, MoveNet-Thunder

- Automated framework to evaluate the soft-skills of an individual using recorded webcam visual-audio data. The system leverages video data to capture verbal and non-verbal features, employing Movenet-Thunder for ergonomic posture evaluation and Librispeech-validated vocal assessment models.
- Eliminated the need for manual evaluation with this automated system, empowering users to enhance their presentation skills, personality, and employability.

### Extractive Text Summarizer

[Publication Link](#) | [GitHub Link](#)

Python, NLP, BM25, TextRank

- Developed an advanced extractive text summarizer leveraging both modern as well as conventional natural language processing techniques. Implemented an innovative approach that seamlessly combines the traditional lexical-based **TextRank** algorithm with the modern algebraic-based bag-of-words model of the **BM25+** algorithm, resulting in highly efficient and accurate summarization of diverse articles.

### Responsive Portfolio

[Portfolio Link](#) | [GitHub Link](#)

HTML, CSS, JavaScript

- Created and implemented a dynamic and responsive Portfolio website, meticulously showcasing my educational background, technical expertise, and personal achievements. The website serves as a comprehensive digital representation of my professional journey, providing potential employers and peers with valuable insights into my skills and accomplishments.

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## CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900)

[Credly Link](#)

Google IT Automation with Python Professional Certification

[Credly Link](#)

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