

## Professional Profile Report: Varun Rao

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### Personal Information:

- **Name:** Varun Rao
  - **Location:** Durg, Chhattisgarh, India
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  - **Phone:** +91 9026241559
  - **GitHub:** <https://github.com/VARUN3WARE>
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### Professional Summary:

Varun Rao is an aspiring **Data Scientist and DevOps Engineer** passionate about leveraging **AI/ML, cloud computing, and automation** to build scalable and efficient solutions. With **2+ years of experience** and **10+ completed projects**, he specializes in **AI-driven insights, predictive modeling, and cloud deployment**. His expertise extends to building **end-to-end ML pipelines, AI-assisted applications, and scalable DevOps solutions**.

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### Education:

- **Indian Institute of Technology, Bhilai**  
*Bachelor of Technology in Data Science and AI (Expected May 2027)*
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### Technical Skills:

#### Data Science & Machine Learning:

- **ML Frameworks:** TensorFlow, PyTorch, Scikit-learn

- **Data Visualization:** Matplotlib, Seaborn, Plotly, Power BI, Tableau
- **Predictive Modeling:** Supervised & Unsupervised Learning, Reinforcement Learning, NLP

#### **Data Analysis & Engineering:**

- **Data Handling:** SQL, MongoDB, Pandas, NumPy, Dask
- **Big Data Processing:** Spark (beginner), Hadoop (beginner)
- **ETL Pipelines:** Apache Airflow, Prefect

#### **Cloud & DevOps (Still Learning):**

- **Cloud Platforms:** AWS (EC2, S3, Lambda), Azure
- **Containerization & Orchestration:** Docker, Kubernetes
- **CI/CD & Automation:** GitHub Actions, Jenkins, Terraform, Ansible

#### **AI & Automation:**

- **LLM Development:** Fine-tuning, prompt engineering, LangChain
- **AI Deployment:** FastAPI, Flask, Streamlit, Hugging Face
- **Edge AI & Edge Computing:** TensorFlow Lite, NVIDIA Jetson

#### **Graphic Design & UI/UX:**

- Adobe Photoshop, Figma, Canva
- Frontend: HTML, CSS, JavaScript, React.js (beginner)

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#### **Work Experience:**

**Junior Graphic Designer | The Wall of Dreams (*May – Aug 2024*)**

- Designed **data-driven visuals** to enhance marketing strategies.
- Strengthened **data storytelling** skills for improved user engagement.
- Applied **data visualization principles** to create compelling insights.

#### **Liaisoning Team | IIT Bhilai (April – Aug 2024)**

- Acted as a bridge between **students, companies, and career services**.
  - Organized **campus hiring events** and facilitated **professional networking**.
  - Enhanced **communication and event management skills**.
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### **Featured Projects:**

#### **1. LLM Analysis (AI Benchmarking & Model Comparison)**

- Evaluated open-source **LLMs on Groq's platform** for performance and efficiency.
- Analyzed **latency, accuracy, and scalability** of different LLMs.
- **Tech Stack:** Python, LangChain, Hugging Face, Groq AI  
[GitHub Repository](#)

#### **2. The Employee Odyssey (Data-Driven Workforce Insights)**

- Analyzed **workplace dynamics and performance trends** using data science.
- Implemented **statistical models** to predict employee productivity.
- **Tech Stack:** Python, Pandas, NumPy, Scikit-learn, Power BI  
[GitHub Repository](#)

#### **3. Mental Health Chatbot (AI-Powered Mental Health Assistant)**

- Developed a **real-time mental health chatbot** using AI and **vector databases**.
- Integrated **document-based knowledge retrieval** for **context-aware conversations**.

- **Tech Stack:** Streamlit, LangChain, Pinecone, OpenAI API, Groq AI  
[GitHub Repository](#)

#### 4. Optimizing Hospital Locations for Future Healthcare (*AI in Healthcare Planning*)

- Applied **spatial data analysis & ML** to optimize **hospital site selection**.
  - Used **population density, healthcare facility data, and geospatial trends**.
  - **Tech Stack:** Python, Geopandas, Folium, Machine Learning  
[GitHub Repository](#)
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#### Certifications:

- **Data Science with Python – Coursera**
  - **Machine Learning Specialist – edX**
  - **Edge AI – Udemy**
  - **Python for Deep Learning – Udemy**
  - **Summer Analytics Bootcamp – IIT Guwahati**
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#### Career Aspirations:

- Advance in **Artificial Intelligence, Machine Learning, and DevOps Engineering**.
  - Expand expertise in **Cloud Computing, MLOps, and Big Data Engineering**.
  - Contribute to AI-driven solutions for **healthcare, mental health, and smart infrastructure**.
  - Build **scalable AI systems** for real-world applications using **cloud and edge computing**.
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## Professional Links:

- GitHub: [VARUN3WARE](#)
  - Key Projects:
    - [Dragon04](#)
    - [Mental Chatbot](#)
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## Contact Information:

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  - Phone: +91 9026241559
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## Conclusion:

Varun Rao is a highly motivated **Data Science & DevOps professional** with expertise in **AI/ML, cloud computing, and automation**. His **hands-on experience in AI applications, cloud solutions, and data analytics** makes him a strong candidate for **data-driven industries**. With a focus on **healthcare AI, mental health solutions, and smart infrastructure**, he aims to drive **innovation and impact** in the technology space.

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