

PAVAN KUMAR ROUTHU

📞 +91-8978343877 ✉ pavankumarrouthu72@gmail.com  <https://www.linkedin.com/in/pavan-kumar-routhu-00462a289/>
 <https://github.com/pavankumarrouthu>

EDUCATION

R.V.R. & J.C. College of Engineering <i>Bachelor of Technology, Computer Science and Engineering (Data Science) / CGPA – 7.90</i>	2021 - 2025
Indian Institute of Technology, Madras (Online Degree) <i>Bachelor of Science in Data Science and Applications</i>	2023 - 2027
Aspire Institute (By Harvard Business School) <i>Leadership Program</i>	Aug 2024 - Nov 2024

Work Experience

Corbett House, IIT MBS Program <i>Technical Content Writer</i> <ul style="list-style-type: none">Leveraged a strong understanding of the latest technologies to produce engaging content that increased reader interaction by 20%.Created PowerPoint presentations and wrote blogs on the latest technology concepts, enhancing documentation with insights from Python and R to improve reader understanding	Sep 2024 - Present <i>Remote</i>
AWS Academy, Eduskills <i>AWS Cloud Virtual Internship</i> <ul style="list-style-type: none">Gained hands-on experience in cloud computing with industry tools using AWS cloud labsCompleted training in cloud infrastructure, application deployment, and security best practices.Participated in expert sessions, enhancing technical skills and career readiness.	Sep 2023 - Nov 2023

SKILLS

- **Programming Languages:** Python, R
- **Libraries and Frameworks:** NumPy, Pandas, ScikitLearn, Scipy.Stats
- **Databases:** SQL, Advanced SQL
- **Other Tech Skills:** OOPS, DSA, GCP, Data Analysis, Power BI

PROJECTS

Diagnosing cardiac risk by enabling methods in supervised machine learning.

- Conducted exploratory data analysis on raw healthcare data to detect patterns indicating heart disease. Utilized machine learning techniques to develop predictive models for early detection of heart conditions, aiding in life-saving diagnostics.
- Engaged in data cleaning, data preprocessing and preparation to ensure accuracy

Medical Insurance cost prediction

- The findings beneficial for policymakers, insurers, and healthcare providers as they can use this information to allocate resources more efficiently and enhance cost-effectiveness in
- Developed a Hybrid model that is a combination of Light Boost, Cat Boost and XG Boost.

CERTIFICATIONS AND ACHIEVEMENTS

- **Selected for Finale I-SUMMIT:** My startup idea got Selected for Finale I-SUMMIT at E-SUMMIT IIT Madras Decade of Dynamism.
- **Selected for McKinsey Forward Program:** Selected for McKinsey Forward Program.
- **Python Hackathon Winner:** Python Hackathon Winner - Paradox Margazhi IITM BS
- **ALUMNI:** Aspire Institute by Harvard Business School