

Pranav R

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Software Engineer with 3+ years of industry experience expertise in predictive modeling, deep learning, and data visualization. Proficient in delivering data-driven solutions, optimizing workflows, and uncovering actionable insights. Demonstrates exceptional problem-solving, communication, and time-management skills. Based in Bengaluru and actively seeking opportunities in Bengaluru, India.

Education

Master of Science in Data Analytics Dec 2024
San Jose State University, San Jose, California, USA | GPA: 3.55/4

Bachelor of Engineering in Computer Science Aug 2020
Dr. Ambedkar Institute of Technology, Bengaluru, India | CGPA: 9.15/10

Professional Experience

Software Engineer | *NeuroLeap Corp, Remote, Bengaluru, India* Feb 2025 – Present

- Reduced inference latency by 35% in speech-to-text systems using Whisper (tiny, small) and Sphinx through model tuning and audio preprocessing.
- Improved noisy-environment transcription accuracy by 20% via data augmentation and WER-driven fine-tuning.
- Visualized model performance using Matplotlib and Seaborn, creating bar charts for WER and latency comparison across audio samples, and grouped bar charts for transcription accuracy under varying noise conditions.

Data Scientist Intern | *MarketMakerCRE, Pensacola, FL, USA* Jul 2024 – Aug 2024

- Optimized data collection by 35% through Python-based web scraping with BeautifulSoup and Selenium, ensuring seamless integration with REIT datasets.
- Enhanced real estate market predictive analytics using XGBoost & Random Forest, reducing MSE from 2.5 to 1.2 (52% improvement).
- Automated data validation with Azure DevOps CI/CD, improving real-time insights by 30%.
- Developed 2+ Tableau dashboards that reduced decision-making time by 25%, supporting 20+ real estate leaders.
- Led A/B testing on the MarketMakerCRE website, increasing user engagement by 15% and optimizing conversion rates by 10% through data-driven insights.

Software Engineer 1 | *Juniper Networks, Bengaluru, KA, India* Jul 2020 – Jan 2023

- Built end-to-end data pipelines in SQL and Alteryx, optimizing processing time by 25% for financial and operational analytics.
- Automated client notifications with Power Automate, ensuring timely contract reminders via JSON attachments, boosting PM team efficiency by 30%.
- Integrated PS/AS Credits dashboard with Power Apps, driving a 23% increase in PM team productivity.
- Analyzed 1,700+ customer engagements, achieving a 20% boost in customer satisfaction.
- Created 7+ financial Tableau dashboards, tracking KPIs, monitoring performance metrics, facilitating data-driven decisions for over 100+ stakeholders, improving decision-making efficiency by 40%.
- Collaborated with cross-functional teams to develop 15+ Power Apps tools, enhancing workflows for 80+ daily users and improving operational efficiency by 33%.

Intern 3 Professional Services | *Juniper Networks, Bengaluru, India* Jan 2020 – Jun 2020

- Automated SQL-based reporting processes using Power Automate, reducing manual effort by 10+ hours weekly.
- Streamlined data extraction with advanced SQL queries and complex joins, cutting report generation time by 18%.

Projects

Predictive Modeling for Soil Health Analysis in Fresno County | Python, TensorFlow, PyTorch, Flask ([GitHub](#))

- Processed 35+ years of soil and weather data via APIs (Google Earth Engine, OpenMeteo, SoilGrids), boosting model accuracy by 12%.
- Achieved MSE of 0.015 using hybrid LSTM-Random Forest models for soil pH prediction.
- Designed interactive GUI for geospatial maps and time-series insights, enhancing agricultural decision-making.

SQL Interview Preparation Tool | Python, LangChain, FAISS, Google GenAI, Streamlit ([GitHub](#))

- Created an interactive web app using LangChain and FAISS for faster, more accurate SQL interview answer retrieval.
- Integrated Google GenAI, enhancing user experience and response quality.

Technical Skills

Programming Languages: Python, SQL, JavaScript, HTML/CSS

ML Frameworks & Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Generative AI, LLMs

Databases: MySQL, Microsoft SQL Server, SharePoint

Automation & BI Tools: Tableau, Power BI, Power Apps, Power Automate, Alteryx, Excel

Big Data & Cloud Technologies: Hadoop, Azure DevOps