

Polisetty Gnana Prakash

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Summary — Aspiring Software Engineer with hands-on experience in building web applications, automating workflows, and developing scalable systems. Proficient in **Java, Python, and SQL**, with strong knowledge of data structures, object-oriented programming, and software development lifecycle. Known for strong troubleshooting skills, collaboration, and a drive to build impactful, reliable technology solutions.

Experience

Externship – Intrain Tech, Virtual **Jan 2024– Apr 2024**
Banking Investment Prediction Using PyCaret *AI Intern*

- Enhanced client investment behavior analysis by achieving **93%** prediction accuracy using PyCaret’s advanced machine learning pipelines.
- Streamlined processing of **10,000+** banking records, improving model deployment efficiency by **50%** through automated workflows.
- Enhanced investment decision reliability with **90%+** prediction confidence scores, enabling actionable insights for financial advisors.

Education

Vellore Institute of Technology - AP, Amaravati **Nov 2021 - May 2025**
B.Tech in Computer Science and Engineering with Cyber Security Specialization *"CGPA - 8.22/10"*
Narayana Junior College, Vijayawada **June 2019 - April 2021**
Higher Secondary Certificate, PCM *"Percentage - 94.4%"*
Gowtham Concept School, Gudivada **Mar 2018 - April 2019**
Secondary School Certificate *"Percentage - 97%"*

Projects

Electricity Consumption and Peak Hour Analysis Using Smart Meter Data— SGP, Time-Series Analysis **Aug 2024 –Nov 2024**

- Achieved a prediction accuracy improvement of **20%** by implementing Sparse Gaussian Processes, reducing computational overhead by **50%** for large-scale datasets.
- Processed and analyzed hourly electricity consumption data for over **1,000** smart meters, enabling real-time peak-hour analysis and consumption forecasting.
- Developed a **web-based interface** that visualized energy usage patterns and predicted electricity bills with a confidence interval of **95%**, empowering users to make informed energy management decisions.

Secure Brain Tumor Detection Using Blockchain — Python, EfficientNet **Jan 2025 – Apr 2025**

- Improved classification accuracy by **10%** over traditional CNN models (**EfficientNet**), achieving **96%** overall accuracy.
- Secured and managed **3,000+** MRI images using blockchain and IPFS for decentralized, tamper-proof storage.
- Designed and deployed a **Flask-based web application** for real-time MRI scan uploads, tumor prediction, and secure access through blockchain-based verification.

Skills

Languages Java, Python, SQL	Tools&Databases SQL Server, MySQL
Development HTML, CSS, JavaScript	Cloud AWS S3, AWS QuickSight, AWS EC2
Frameworks TensorFlow, PyCaret, Git	Soft Skills Communication, Leadership

Certification

AWS Cloud Practitioner **Dec 2023 - Feb 2024**

Extra-Curricular & Hobbies

- Member of the college Photographic Team, capturing the events, enhancing visibility and engagement by 30% on social media platforms.
- Contributed to creating visual content for college publications, increasing audience reach by 25%.
- Playing sports, exploring advancements in AI, and studying Agentic AI concepts.