G Prabhanjana

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PROFILE

Statistics and Computer Science major at Christ (Deemed to be) University with experience in data analysis, machine learning, and GIS. Worked on multilingual parliamentary corpora, OCR workflows, and metadata processing as part of applied research. Built geospatial applications and educational computing tools, including a custom routing-based walkability system and a PyPI-published autograd engine.

EDUCATION

- **Christ University** — Bengaluru, India
  Honours Bachelor of Statistics and Computer Science; GPA: 3.78/4.0 — *July 2023 - Present*

  Activities: *Labyrinth vertical head (OS & Deployhub)*
  Certification: *Mathematics for Machine Learning (IIT Kharagpur, Nov 2024)*
  Achievements: *Research Presentation – 1st Place, Inter-Deanery Contest*

- **RMS Pre-University College** — Bengaluru, India
  MSBA (Mathematics, Statistics, Business Studies, Accountancy); 12th Grade: 91.33% — *June 2021 - March 2023*

SKILLS SUMMARY

- **Languages:** Python, C, Java, R, MATLAB, JavaScript, Kotlin
- **Frameworks:** PyTorch, scikit-learn, Three.js
- **Tools:** Docker, QGIS, GIT
- **Platforms:** Linux, Web, Windows
- **Markup & Query:** HTML, CSS, SQL

EXPERIENCE

- **Berlin School of Economics and Law (HWR Berlin)** — Berlin, DE
  Research Intern — *April 2025 - July 2025*

  - **OCR Workflows**: Developed OCR workflows with custom boldness-based speaker/speech detection and built speaker classification with Levenshtein-based error correction.
  - **Data Processing**: Performed extensive metadata collection, data cleaning, and finalized the multilingual parliamentary corpus.
  - **Tabulation & Error Correction**: Designed custom tabulation logic for parliamentary transcripts and implemented error-correction pipelines using Levenshtein distance.

- **Anuvrittiksha EdTech Pvt. Ltd.** — Bengaluru, IN
  Creative Technology Developer — *May 2024 - June 2024*

  - **Video Content Creation**: Scripted and animated solution explanation videos for six Leetcode topics, wrote clean multi-approach code solutions.
  - **Collaboration**: Collaborated across time zones using Scrum with Jira and Confluence. Reviewed and edited scripts and code for 12+ Leetcode solution videos.
  - **Code Review & Onboarding**: Reviewed solution code for consistency and mentored incoming interns on scripting standards, workflows, and content development.

PROJECTS

- **Bangalore Walkability Index & Neighborhood Rating System (Live Demo)**: Collected, cleaned, and geocoded data from government sources and OpenStreetMap using custom Valhalla Docker instance for routing. Developed proprietary exponential-decay algorithm for personalized neighborhood scoring with instant interactive response; arXiv:2512.08941.
- **Lok Sabha Political Speech Analysis (HuggingFace Model)**: Performed quantitative analysis of parliamentary speeches using Python and R. Built ML models using Transformers for topic and speaker classification of parliamentary speeches.
- **VizGrad: Autograd Engine (PyPI Package)**: Developed and published a lightweight autodiff engine with visualization support. Released documentation and examples for educational use.

PUBLICATIONS & RESEARCH

- **Published Paper**: Prabhanjana, G., Shetty, Y., Vats, D., & Rajendran, R. K. (2025). *Optimizing Flood Risk Management Through Geospatial AI and Remote Sensing.* In Recent Trends in Geospatial AI, IGI Global, pp. 155–176. DOI: 10.4018/979-8-3693-8054-3.ch006
- **Papers Under Review**: *Teaching Small-Language-Models Epistemic Humility* (with Chanti S., George J.P.); *Personalized Urban Accessibility Using Exponential Decay* (with Chanti S.); *Entropy as Predictor of Hallucinations in Small-Scale LMs* (with Shetty Y.R., et al.); *Indian ParlSpeech as Truth Text Data* (with Schaal M., et al.)