Prathuasha Kandula Bindhu

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🔗 LinkedIn   🐙 GitHub   🌐 Portfolio

EDUCATION

TU Dortmund University	Dortmund, Germany
M.Sc. Data Science	*Oct 2025 - Present*
Sri Siddhartha Institute of Technology	Karnataka, India
*Bachelor of Engineering	Computer Science and Engineering	CGPA- 9.47*	*Dec 2020 - Dec 2024*

INTERNSHIP EXPERIENCE

Data Science Research Intern (Consultant Role) — Karnataka, India
Rubixe - AI Solutions Company — *Apr 2025 - Oct 2025*

- Worked on multiple proof-of-concept (POC) and client-driven data science projects, applying statistical analysis, machine learning techniques, and data visualization to address real-world business and research problems.
- Conducted exploratory research and experimental evaluation of machine learning models, focusing on research-driven problem formulation, hypothesis testing, and analysis on real-world, large-scale datasets.
- Collaborated with project teams and clients to analyze datasets, interpret results, and deliver actionable insights using Python and industry-standard Data Science tools.
- Demonstrated consistency, analytical rigor, and independent problem-solving skills while balancing experimentation, validation, and performance evaluation of models.

PUBLICATIONS

- **Maldefender – A Comprehensive Malware Detection System Using Machine Learning and Real-Time Analysis:** Disha Bhargavi B. S., H. L. Srilaxmi, Neha Acharya, **Prathuasha K. B.** *International Journal of Engineering, Management & Humanities (IJEMH), 2024.*

ACADEMIC PROJECTS

- **No-Churn Telecom – Customer Churn Prediction (Internship Client Project):**
  Developed a machine learning solution for a European telecom client to predict customer churn and support retention strategies. The project involves data pre-processing, exploratory analysis, feature engineering, and model building, carried out under professional mentorship at Rubixe. (Sept '25 – Oct '25)

- **MALDEFENDER: A Malware Detection System (BE Thesis):**
  Developed a malware detection system to identify threats in files and URLs. Implemented machine learning techniques to analyze and classify potential malware. Successfully integrated and deployed the system for real-time detection and prevention. (Oct '23 - Jul '24) [Thesis] [Paper Link] [Repo Link]

- **JOBINTERNDESK - Online Job Portal Website (IBM Skillsbuild, Internship Project):**
  An innovative online job portal website, which provides a dynamic platform connecting job/internship seekers and employers seamlessly. (Jun '23 - Jul '23) [Website][Repo Link]

- **Detection of Autism Spectrum Disorder(ASD)(BE Mini-Project II):**
  Trained a ASD detecting model utilizing machine learning algorithms to analyze images and structured data for identifying ASD traits, enabling early diagnosis and intervention. (Mar '23 - Jul '23) [Report] [Repo Link]

- **Automatic Speech Recognition Using Deep Learning(BE Mini-Project I):**
  Developed a simple speech recognition system using Wav2Vec2.0 model by Facebook and Hugging Face model Hub that converts human speech into readable text. (Nov '22 - Feb '23) [Report][Repo Link]

- **Short Range Ultrasonic Radar Using Arduino UNO(BE Hobby Project):**
  Designed a shortrange radar that could be helpful for object avoidance/ detection applications by using electromagnetic waves with the help of Arduino UNO and ultrasonic sensor. (Nov '21 - March '22) [Repo Link]

Technical Skills

- **Programming Languages**: Python, Java, C
- **Machine Learning & Data Science**: Statistical Analysis, Machine Learning, Deep Learning, Model Evaluation, Data Visualization
- **Generative AI & LLMs**: Large Language Models (LLMs), Prompt Engineering, Transformer Architectures, Text Classification, Embedding-based Retrieval
- **ML / DL Frameworks**: PyTorch, Keras, Scikit-learn, Hugging Face Transformers
- **Data Analysis Libraries**: Pandas, NumPy, Matplotlib, OpenCV, NLTK
- **Web & ML Deployment**: Flask, Streamlit
- **Databases**: MySQL, MongoDB, MS Access
- **Developer Tools**: Git, Jupyter Notebook, Google Colab, VS Code, PyCharm, Kaggle
- **Research Skills**: Problem formulation, experimental design, model validation, result interpretation

Certifications

- **Certified Data Science Training(DataMites):**
  Comprehensive training covering Python, Machine Learning, Deep Learning, Statistical Modeling, Data Analysis, and Data Visualization. (Jan '25 - May '25) [Certificate]

- **Data Analytics & Reporting(iTech Analytic Solutions):**
  Practical skills in data collection, cleaning, visualization, and reporting using industry-standard tools. (May '23 - Jul '23) [Certificate]

- **Foundations of Project Management(Coursera / Google):**
  (May '23) [Certificate]

Honors and Awards

- Thrive Learning Excellence Award (2024) – Recognized for academic excellence by Brainac Light Awards.
- Awarded Gold Medal for securing the highest academic distinction in CSE (Batch 2020–2024) awarded by SSAHE.
- Honoree of Highest CGPA Award in CSE, Academic Years 2023 (BE-VI SEMESTER) and 2024 (BE-VIII SEMESTER).
- AICTE Pragati Scholarship – Merit-based scholarship awarded by the Government of India (2020-2024).
- Scholar Award in Senior Secondary Education, Academic Years 2018-2019 (XI GRADE) and 2019-2020 (XII GRADE).

Volunteering and Extracurriculars

- **Participant**
  TECHNODEA-2024 (National Project Exhibition), SSIT   *May 2024*
  - Presented B.E. Major Project along with team at a national-level competition.

- **Volunteer**
  Open House Event (CSE Department), SSIT   *Aug 2023*
  - Assisted in demonstrating various digital applications (navigation, payment, and shopping apps) to primary school students.
  - **Responsibility:** Explained about navigation apps, specifically Google Maps and What3Words, and guiding students in their practical use.