

Bhoomika A P

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Technical Proficiencies

Languages:	Python, R, JavaScript, Java, HTML5, CSS
Frameworks:	Django, Apache Spark, Hadoop, TensorFlow.
Databases:	MongoDB, MySQL, HBase, Oracle, Pinecone
Tools:	GitHub, Eclipse, Anaconda, RStudio, Docker, Weights & Biases
Libraries:	NumPy, Pandas, Scikit-learn, PyTorch

Education

Ph.D. in Data Science International Institute of Information Technology, Bangalore, India (IIIT-B) Course work: <i>CGPA 3.51/4</i>	Aug 2022 to till date
Master of Technology in Computer Science and Engineering Visvesvaraya Technological University, India Aggregate 77%	Sept 2013 – July 2015
Bachelor of Engineering in Computer Science Visvesvaraya Technological University, India Aggregate 72.4%	Aug 2008- July 2012

Relevant Courses

- Machine Learning
- Big Data Analytics
- Neural Network and Deep Learning by Andrew Ng
- Building Multimodal Search and RAG

Technical Projects

- **Web Page Recommendation Based on Semantic Web Usage Mining | Predictive Analytics | Machine Learning**
Developed a hybrid web page recommendation system on University Dataset by integrating semantic knowledge in the form of ontologies at different stages of web usage mining to generate a list of accurate and meaningful recommendations of to the students and staff.
- **Water Availability Prediction in Chennai City using Machine Learning | Predictive Analytics| Machine Learning**
Developed a machine leaning model using Support Vector Regression technique to predict water availability in Chennai city using the dataset of rainfall levels and water levels in the reservoirs of Chennai.
- **An Integrated Machine Learning Approach to Stroke Prediction| Predictive Analytics | Machine Learning**
Implemented 87% accurate predictive analysis model using Linear Discriminant Analysis and Ensemble techniques on Kaggle Stroke Prediction dataset.

Publications

- Bhoomika A.P. (2021) “*Water Availability Prediction in Chennai City Using Machine Learning*”. In: Satapathy S., Zhang YD., Bhateja V., Majhi R. (eds) Intelligent Data Engineering and Analytics. Advances in Intelligent Systems and Computing, vol 1177, pp-265-275. Springer, Singapore. (FICTA 2020- NITK Sutrathkal).
- Bhoomika, A. P., Srinivasa, S., Indla, V. S., & Mukherjee, S. (2023, December) “*Vector-Based Semantic Scenario Search for Vehicular Traffic*”. In *International Conference on Big Data Analytics* (pp. 160-171). Cham: Springer Nature Switzerland.

Work Experience

Teaching Assistant | International Institute of Information Technology | Bangalore, India | Aug 2024 -Nov 2024

- Involved in delivering tutorials for the **Networks and Semantics** Course

Assistant Professor| School of Engineering, Presidency University | Bangalore, India| October 2021 to July 2022

- Involved in designing of the Big Data Analytics course curriculum and teaching Java Programming for undergraduate engineering students.
- **Workshop on Big Data Analytics Tools**, Session Speaker
Handled a session and hands on for Apache Spark fundamentals for 120 students at Maharaja Institute of Technology, Mysore, India in Dec-2021

Assistant Professor| B.M.S College of Engineering| Bangalore, India| Nov 2020-Oct 2021

- Involved in teaching Courses Big Data Analytics, C Programming and was in charge of their laboratory classes.
- Attended workshops on Machine Learning, Deep Learning and DevOps.

Freelance Developer |July 2017- Dec 2017

- Involved in the development of Web Application **NaukriTracker** - an online job search platform in Gulf region for searching/tracking jobs in a highly interactive manner.
- Tools and Technologies used: PHP Laravel Framework, XAMPP server, Jira, GitHub. Deployed the application in AWS.
- Worked in an agile development setup. Development as per the client requirements.

Assistant Professor| Alliance College of Engineering and Design, Alliance University| Bangalore, India| Aug 2015-Nov 2020

- As an Assistant Professor I have taught Algorithms, Data Structures, Databases, Python, Data Analytics using R, Web Programming and was in-charge of their laboratory classes too.
- Guided student major/mini projects on Web development, Machine learning and Deep Learning.

Achievements

- Delivered Lectures in Two Days Workshop on “Hands-on session on Big Data Analytics Tools” held at *Maharaja Institute of Technology*, Mysore, India in Dec-2021
- Participated in “ACM India PhD Clinic” held at International Institute of Information Technology, Bangalore, India in Jan-2024
- Website Chair, CIKM 2023 Workshop on Enterprise Knowledge Graphs with Large Language Models.