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Bachelor of Technology [0 GitHub](https://github.com/Bnaresh6752)

Lovely Professional University [lff LinkedIn](https://www.linkedin.com/in/bacchu-naresh-kumar-21291924a/)

# Education

* **Lovely Professional University**

*Bachelor of Technology in Computer Science and Engineering (Machine Learning)*

# Personal Projects

* **Named Entity Recognition**

## *A website based facial authentication system, implemented using a Chrome Extension...*

* + Developed and evaluated a Named Entity Recognition (NER) system, achieving high accuracy (90fying entities such as names, locations, and organizations from unstructured text using advanced NLP techniques.
  + Applied advanced algorithms such as Hidden Markov Models (HMM), Linear Regression, and Neural Networks to enhance toxicity classification efficiency.
  + Technology Used: Python, Pandas, Numpy, Scikit-learn, Matplotlib, spacy

# Wine Quality Prediction

## *A classification-based machine learning project to predict wine quality based on multiple attributes.*

* + Refined and deployed a machine learning model to predict wine quality with 89% accuracy. Improved overall performance by 25% through effective feature engineering and hyperparameter tuning, while optimizing processing time by 15%.
  + Frameworks Used: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.

# Dimensionality Reduction using PCA

## *Implemented PCA to reduce high-dimensional data, enhancing visualization and machine learning*

* + Implemented a Named Entity Recognition (NER) system using BiLSTM-CRF and fine-tuned BERT, achieving 90.
  + Frameworks Used:PCA ,Numpy and Pandasitemize.

# Technical Skills

**Languages**: C/C++, Python, Java, HTML+CSS,SQL

**Libraries** : C++ STL, Python Libraries,Scikit-learn,TKinter,Numpy,Pandas.

**Machine Learning Tools**: Jupyter,Google colab,Natural Language Processing(NLP),neural networks,data pre- processing

**Frameworks**: TensorFlow,OpenCV

**Cloud/Databases**:MongoDb, Relational Database(mySql)

**Relevent Coursework**: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

**Areas of Interest**: Web Design and Development, Machine Learning.

**Soft Skills**: Attention to Ethical Consideration, Self-Motivation and Proactiveness, Effective communication and presentation skills, Adaptability

# Extra Curricular Activities

·**Inter-college dochboll Competition** : Participated

·**Techfest Volunteer** : Participated

·**Coding Club Member** : Participated in coding challenges and workshops, mentoring junior members.

# Certification Repository

[View my Certification Repository on Google Drive](https://drive.google.com/drive/folders/1EFd3yKF4Q_olM77CFUk27oUS-jk-llCb)