# VISHESH YADAV

First Year Student
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**EDUCATIONAL QUALIFICATION** *(* ongoing)*

| YEAR | DEGREE | INSTITUTION | TGPA/% |
|---|---|---|---|
| **2024-2025** (expected) | * MCA (Master of Computer and Applicatons) | Lovely Professional University, Phgwara | (Sem-I ) 8.8 |
| **2022** | BSc. (Maths) | D.P. Chhaturvadi College,Seoni | 8.8 |
| **2022** | DCA (Diploma of Computers and Application) | SECT Computers , Seoni | 7.5 |
| **2019** | XII (CBSE Board) | S.T Francis of Assisi School, Seoni | 6.0 |
| **2017** | X (CBSE Board) | S.T Francis of Assisi School, Seoni | 8.0 |

## KEY PROJECTS

- ***Deployed& Hosted ML Model for Stack Overflow Dev Survey Salary Prediction***
  - Extracted 2023 Stack Overflow developer survey data and selected pertinent features, including experience, education, and technical skills.
  - Utilized **linear regression** for salary prediction, fitting the model on the preprocessed dataset.
  - Evaluated model performance using **R-squared** and analyzed coefficients to assess feature importance in predicting salaries.
  - Deployed the model with **Streamlit**, enabling user interaction for **real-time salary predictions** based on input variables.
- ***VISH - Versatile Interpretive Syntax Handler***
  - Interprets diverse syntax with Transformer Architecture, enhancing Natural Language Processing.
  - Flexible system for handling diverse syntax structures with Transformer Architecture.b Matrix operations on embeddings capture **syntactic patterns** using self-attention.
  - **Self-attention** computes context-aware representations enabling advanced syntax modeling.
  - **Parallel computations** over sequences model diverse syntactic structures flexibly.
- ***Diabetes Prediction Model***
  - Utilized machine learning techniques to develop a predictive model for diagnosing diabetes based on relevant datasets. Extracting relevant features (e.g., age, BMI, glucose levels) from raw data
  - Preprocessing techniques like normalization, handling missing values, **Dimensionality reduction (e.g., PCA)** to reduce feature space complexity.
  - Logistic regression models probability of binary outcome using logistic sigmoid function. Optimizing, log-likelihood objective function via gradient descent algorithm
  - Iteratively updating model parameters to maximize likelihood of observed data
- ***LipSync Decoder Model***
  - Developed deep learning model for lip movement analysis, leveraging neural networks.
  - Demonstrated pre-trained model utilization for diverse data prediction, including text and video.
  - Model architecture includes embedding layers for semantic representation and attention mechanisms for relationship identification.
  - Formulated training as an optimization problem, minimizing loss using gradient methods. Attention mechanism computes weighted sums based on query-key similarities.
- ***Detecting Leukemia Using Convolutional Neural Network***
  - Implemented a **Convolutional Neural Network (CNN)** to detect leukemia from medical images, contributing to early and accurate diagnosis of the disease.
  - content, incorporating innovative approaches to data crafting and model training.

## TECHNICAL SKILLS

Scikit-learn & Keras, Skilled in language (C, Cpp, Python), Problem Solving & Analytical Skills, Kubernetes, Natural Language Processing, Pandas & Numpy, Higher Maths, Tensorflow, Matplotlib, IBM cognos.

## OTHER HOBBIES AND ACHIEVEMENTS

- **2nd runner up in GD** conducted by *Thought Theater* of my university,
- **Public Speaking** (**Anchor** at **SCA** (school of computer and application) dpt.),
- **Specialized in following s/w**: After effects, Premiere pro, Final cut pro, Video copilot, Procreate, Vector 3D, Chess, Sketching, Illustrations and video editing,