

# PREET GOVIND

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## PROFESSIONAL EXPERIENCE

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### **Software Developer** — *National Informatics Center Services Incorp, Dehradun*

MAY 2023 - PRESENT

- Lead development projects for the State Planning Commission (Uttarakhand) and the Financial Data Center (UK Government).
- **Develop** and **deploy** full-stack web applications supporting over a million users, including the Accountant General.
- Managed **ETL pipelines** and ensured efficient data synchronization.
- **Optimized SQL procedures** (Oracle SQL, T-SQL) and **backend solutions** using C#, Python and Java..
- Enhance data storage efficiency using tree structures, hash maps (Java), and hash tables (C#).
- Implemented **multi-factor authentication, tuple logging** and **SHA-256 hashing** to ensure data security and integrity of data.
- Elevated **LightHouse** ratings **above 90%**, enhancing page load times and user experience.
- Implement secure payment gateways for government web portals.
- Developed **deep learning models** for Hindi script recognition, data extraction from scanned PDF, and image readability using **TensorFlow** and **OpenCV**.
- Develop and deploy **regression** and **classification ML** models using **Flask**.

## INTERNSHIP

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### **Big Data and Hadoop** — *National Institute of Electronics and Information Technology (NIELIT), New Delhi*

JUNE 2019 - JULY 2019

- Experience of working with **Hadoop**, **Map Reduce** & **PySpark**.
- Programming using Java with **Pig** and **Hive** programming.
- Experience of **ETL**, **Exploratory Data Analysis** and **Feature Engineering**.
- Secured Marks 64% in the exam held by NIELIT

### **ASP.NET with C# and SQL Server** — *National Institute of Electronics and Information Technology (NIELIT), New Delhi*

JUNE 2018 - JULY 2018

- Code written for secured login and registration page.
- Also wrote a Windows executable program for Morse Code –English translator
- Secured grade 74% in the exam held by NIELIT.

## EDUCATION

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### **Uttarakhand Technical University, Uttarakhand** — *B.Tech(CSE)*

JUNE 2016 - JUNE 2020, Uttarakhand | **CGPA : 7.21**

## PROJECTS

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### **OpenAmoeba**

- Simulated natural amoeba behavior using **neural networks** with TensorFlow and Adam's optimizer.

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- Implemented path traversal based on nearest object detection, demonstrating complex decision-making algorithms.
  - Implementation of chemical parameters which influence the **decision state vectors**.

#### **PDF TextVision**

- Developed a web application using **Flask** to assess PDF readability using **Laplacian operation** , **OpenCV** and **Faster R-CNN**.
- Enhanced tabular data extraction as compared to direct implementation of PyTesseract.
- Led to a **40%** decrease in unreadable scanned PDFs.

#### **Fake News Detection**

- Built a **machine learning pipeline** combining **SVM** and **XGBoost**, increasing accuracy by **3.34%** over unpipelined SVM.

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## **CERTIFICATIONS**

**Stanford University , DeepLearning.io(Andrew NG) - Coursera**  
**Machine Learning Specialization**  
MAY - JUNE 2024 | Grades : 100%

**National Programme for Technology Enhancement Learning**  
**(NPTEL)**  
**Database Management System (DBMS) : (IIT Kharagpur)**  
FEBRUARY - MARCH 2018 | CGPA : 5.26

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## **TECHNICAL COMPETENCY**

#### **Programming Languages**

- C#, Java, Python, Bash Shell Scripting

#### **Web Frameworks**

- **Back-end Frameworks:** ASP-DotNet MVC , Spring MVC , Flask
- **Front-end Frameworks:** HTML5, CSS3, jQuery, AJAX

#### **Databases**

- OracleDB , SQL Server

#### **Reporting & Analytics Tool**

- SAP Crystal Reports , RDLC

#### **Data Engineering**

- Extraction , Transform & Load (ETL) , Apache Hadoop, PySpark

#### **Data Science & Machine Learning**

- **Libraries & Tools:** NumPy, Pandas, Scikit-learn, SciPy, Seaborn, TensorFlow, OpenCV
- **Techniques & Models:** Exploratory Data Analysis, Feature Engineering, Linear Regression, Logistic Regression, Support Vector Machine, PCA, XGBoost

#### **Deep Learning & NLP**

- Convolutional Neural Network, Natural Language Processing.

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## **AWARDS**

**Gold Medalist and 'A' Level Certified** – National Cadet Corps (NCC)

**First Position : Tabla Solo Instrumental** – Zonal Level Competition , Delhi (NCT)