

PURNIMA YADAV

+1 6476863252 | purnimaa.911@gmail.com | <https://github.com/purnima-03> | www.linkedin.com/in/purnima-yadav | Valid Canadian Work Permit

Profile

I am a Software Developer with a background in Computer Science, Big Data and Artificial Intelligence. I am a highly motivated, fast-learner recent college graduate with a passion in technologies like Computer Vision, NLP, Python and SQL. I have dedicated most of my time in developing my skills as a Machine Learning Engineer and keen to pursue a career in the same field.

Skill Summary

- Programming languages: PYTHON, R, SQL(MySQL, PostgreSQL, OracleSQL), JAVA, HTML, JAVASCRIPT, CSS, PHP, SWIFT.
- Machine Learning: TensorFlow, YOLO Net, Keras, SciKit Learn, NLP, Computer Vision, Deep Learning, PyTorch, Transfer Learning, NLTK, Numpy, Pandas, Beautiful Soup, Matplotlib.
- Database: SQL, Oracle, Apache Spark, PySpark, Hadoop, Apache Pig, Apache Hive, Apache Kafka, Apache Sqoop.
- Data Visualization: Tableau, Matplotlib, Plotly, SweetViz.
- Cloud Computing: Amazon Web Services, Google Cloud Computing, Google BigQuery, Google DataFlow, Microsoft Azure, Flask, Docker, Heroku.
- Web Computing: HTML, CSS, PHP, JAVASCRIPT.
- Proficient in using tools such as GitHub, TensorFlow, YOLO Net, Keras, PyTorch, Transfer Learning, SSMS, Tableau, R Studio, VS Code, Visual Studio 2012.
- Extremely flexible and adaptable to new environments.
- Effectively communicate within a team environment and can convey strong leadership skills while communicating common goals and perform task as a team or individual effort.

Education

ARTIFICIAL INTELLIGENCE DESIGN AND IMPLEMENTATION| DURHAM COLLEGE

Graduate Certificate | Sep 2020 – April 2021

- Worked on technologies like Computer Vision, Natural Language Processing, Sequence-to-Sequence modeling using LSTM, Tokenization using NLTK, Text Vectorization using Scikit learn.
- Developed artificial intelligence and machine learning models and agents that use enterprise data for data mining, identify patterns, provide insights and recommend actions.
- Designed and built dashboard to show the daily number of cases for COVID-19 and predicted future cases curve by country/region using Python and Tableau.

BIG DATA SOLUTION ARCHITECTURE | CONESTOGA COLLEGE

Graduate Certificate| Jan 2020 - Aug 2020

- Integrated concepts of Big Data and solved many Machine Learning problems such as Linear Regression, Logistic Regression, and Decision Tree using tools and languages such as Apache Spark, Hadoop, Apache Pig etc.
- Developing skills in solution development, database design (both SQL and NoSQL), data processing, data warehousing and data visualization, statistical methods like hypothesis testing.
- Understanding key elements and values of computer ethical theories and computer security.
- Acquired crucial concepts of SDLC and performed software testing using Selenium.

COMPUTER SCIENCE ENGINEERING | THE NORTHCAP UNIVERSITY

Bachelor of Technology | July 2015 - Mar 2019

- Attained conception behind Data Structures and Algorithms to solve many day to day problems.
- Obtained knowledge of coding and working with Computer Networks and routers.
- Working knowledge of task scheduling and pre-processing in Operating Systems along with concepts of Computer Architecture Organisation.

Projects

- Fire Safety- a web application made using AWS EC2 instance and Tesla K80 that detects fire and the location of fire using object detection frameworks like YOLO V4 through live surveillance cameras with about 95% accuracy and sends report to the specific authorities.
- Face Mask Detection: a web application made using Streamlit, ngrok and Google Colab Tesla P100 that detects face masks using object detection model YOLO V4 on images and videos collected through live camera feed with approximately 90% accuracy.
- Depression Assistant Chatbot: analyzing emotions of people such as anger, sadness from their text input and hence identifying depressed people in order to divert them from negative thinking.
- Situational Analysis from Images- designed and built a machine learning pipeline which takes an image as input and delivers a description of the situation in the image using existing architectures and frameworks such as YOLO Net, ImageNet and RNNs. The object detection model was designed as a combination of image and a word trained on the Flickr8K dataset gathered from Kaggle containing 8000 images.
- Stock Prediction: applied web scraping method to extract stock symbols from news articles inside a website and built an expert system that uses its knowledge base and inferencing techniques to predict the best time to invest in Stocks.

Experience

IOS DEVELOPER INTERN | SCANTA | GURUGRAM

Internship | February 2019 – August 2019

- Collaborated with Senior Developers to build a mobile application Tynt- live streaming beauty app.
- Designed UI of different frontend screens using Swift programming language and Xcode.
- Partnered with Web Developer to integrate web APIs of Google and Facebook for user login.
- Created some database objects and packages.

Hobbies and Achievements

- Received numerous awards at competitions in drawing and painting posters.
- Learning skills for technologies such as Machine Learning and Big Data.
- Won many inter-school volleyball competitions.