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https://github.com/benniella/Ml-learning
https://portfolio.bennytechhub.com/
https://bank-churn.bennytechhub.com/
https://credit-risk.bennytechhub.com/

Professional Summary

Results-driven Artificial Intelligence professional with over four years of hands-on experience in machine learning, computer vision, and data science. Recently completed an MSc in Artificial Intelligence at the University of Stirling, where I developed a full end-to-end sports performance analysis pipeline using **YOLOv8**, **DeepSORT**, **OpenCV**, and **Roboflow** to track and quantify player movements from video footage. Skilled in building predictive models, natural language processing (chatbots, hate speech detection), and statistical analysis using **Python** and **R**. Proficient with modern AI tools and frameworks, including **Render, Github, FastAPI, and Docker**, for prototyping and deployment. Demonstrated leadership and collaboration through cross-functional projects and public presentations. Passionate about applying AI to solve complex, real-world problems and delivering innovative, data-driven solutions across industries.

Skills

- Effective Communication.
- Teamwork.
- Proper Presentation.
- Leadership.
- Machine Learning Data Visualization.
- Multitasking.
- R and Python Programming.
- Natural Language Processing, Computer Vision.
- Pandas, NumPy, Scikit-learn.
- Creative Skills: Photography, Visual Composition, Content Framing.

Experience

AI/ML Lead | Stripedge systems (July 2024 – Till Date)

- Leading the development and deployment of machine learning models for client-facing products, including predictive analytics and AI automation tools.
- Designing and managing end-to-end ML pipelines: from data collection and pre-processing to model training, evaluation, and deployment.
- Collaborating with cross-functional remote teams to identify AI opportunities and integrate intelligent solutions into software systems.

- Overseeing junior AI developers and providing mentorship on model tuning, data handling, and production-ready code practices.
- Driving innovation through research and experimentation with generative AI, LLMs, and computer vision applications tailored to client needs.

Machine Learning Engineer | Chronicles Software Development Company (February 2023 - July 2024)

- Developed and implemented machine learning models for predictive analysis, improving accuracy in various product performance evaluations.
- Designed workflows for data pre-processing, model training, and evaluation, enhancing the efficiency of model deployment.
- Collaborated with cross-functional teams to understand business requirements and translate them into technical solutions.
- Attended industry exhibitions to showcase machine learning solutions, effectively communicating complex ideas to non-technical audiences.
- Conducted in-depth research on machine learning algorithms and systems to improve existing product offerings.

AI Researcher | Robotics and Artificial Intelligence Rain (September 2020)

- Conducted comprehensive research on various datasets to support ongoing AI and robotics projects.
- Assisted in the development of an automated grading system for theory exams, focusing on improving accuracy and reliability.
- Supported developers by providing data analysis insights and assisting with coding tasks, contributing to successful project completion.

Projects

- **Credit Risk Prediction System**
  Developed a machine learning model that predicts whether a loan applicant is likely to default or repay based on demographic, financial, and behavioural data. Built with Python, Scikit-learn, and FastAPI, the model uses Logistic Regression and Random Forest algorithms to evaluate applicant creditworthiness, achieving 89% accuracy and a ROC-AUC of 0.85. Deployed as a live interactive web app with a connected frontend, it allows users to input data and receive real-time credit risk predictions, supporting data-driven loan decisions.
- **Hate Speech Detection Using Machine Learning:**
  Built a hate speech detection model using NLTK and Decision Tree Classifier. Pre-processed text data by tokenisation and stop-word removal, improving classification accuracy.
- **Chatbot Development using Prompt Engineering:**
  Developed a football-themed chatbot using GPT-4 prompt engineering to simulate player-style responses and commentary, with a focus on dialogue direction, tone consistency, and contextual understanding.

- **Spam Mail Prediction:**
  Built a spam detection model using Logistic Regression algorithms. The project included data pre-processing, vectorization of email content, and model evaluation using precision, recall, and F1-score metrics.
- **Student Grade Prediction:**
  Developed a student grade prediction model using Kaggle datasets and Support Vector Machine (SVM) algorithms. The project involved data normalization, feature scaling, and cross-validation to ensure reliable predictions**.**
- **Statistical Test on productivity and time management:**
  Conducted a statistical analysis to determine the relationship between productivity and time management using real-world data. Used correlation analysis and hypothesis testing to derive actionable insights.
- **Bank Customer Churn Prediction**
- Developed a machine learning system that predicts whether a bank customer will leave or stay based on their financial and behavioural data. Built with Python, Scikit-learn, and FastAPI, the model was trained using a Random Forest Classifier, achieving 87% accuracy and a ROC-AUC of 0.86. After optimizing the decision threshold to 0.57, performance improved to 90% accuracy, balancing precision and recall. Deployed as a live FastAPI web app integrated with a frontend interface, it provides real-time churn predictions, with Age identified as the strongest factor influencing customer churn.
- **Sports Performance Analysis Using Computer Vision:**
  Developed a reproducible low-cost pipeline using YOLOv8 and DeepSORT to track football players, compute metrics (speed, distance, intensity), and analyse tactical phases like counterattacks and defensive transitions.

Education and Certification

University of Stirling

MSc Artificial Intelligence | January 2024 - Till Date.

Kings University

BSc Computer Science (2:1) | November 2017 - September 2021.

Certification

- AWS Certified Machine Learning course – Specialty (Nov 2023).
- AWS AI Practitioner (in view).
- Coursera (Stanford University): Machine Learning (Mar 2023).

LinkedIn Learning:

- AWS ML Prep (March 2025).
- Introduction to Career Skills in Data Analytics (July 2025).
- SQL for Non-Programmers (August 2025).
- Microsoft Azure AI Engineer Associate (AI-102) Cert Prep by Microsoft Press.
- AI in Risk Management and Fraud Detection.