

SONAM THINLEY

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Aspiring AI and Machine Learning Engineer with a passion for building both the front-end and back-end of web apps as well as mobile applications. A former hospitality leader who has overseen business operations, large-scale projects and supervised 50+ team members. Transitioning into a software development role after completing a master's degree in information technology and systems where coursework encompassed cutting-edge topics such as Computer Vision and Image Analysis, Designing Human-Computer Interaction, and Artificial Intelligence Techniques.

EDUCATION

Canberra, ACT

University of Canberra

Aug 2022 – May 2024

- Master of Information Technology and Systems
- GPA:6.63/7
- Dean's Excellence Award Recipient
- Specialization: Artificial Intelligence and Machine Learning
- Coursework: Programming and algorithm design, Software Technology, Systems Analysis and Modelling, Artificial Intelligence Techniques, Pattern Recognition and Machine Learning, Cybersecurity, Interactive Systems Design, Soft Computing, Technology Engineering Management, Computer Vision, and more.

Gedu, Chhukha

Royal University of Bhutan

July 2009 - June 2013

- Bachelor of Business Administration
- Specialization: Finance
- Coursework: Management Principles, Statistics, Economics, Business Communication, Financial Accounting, Entrepreneurship, Marketing, Operations Management, Investment Analysis

ONLINE COURSES

- Cisco Java Script Essentials 1
- Microsoft – AI Intensive Bootcamp (Azure AI)
- HTML and CSS on freecodecamp

SKILLS

- **Software:** Python, Javascript, SQL, HTML, CSS, Git.
- **Frameworks:** React, Tensorflow, Pytorch
- **Project Management:** Familiar with software development methodologies such as Agile, Scrum, or Kanban, and software development lifecycle (SDLC).
- **Soft Skills:** Effective communication, project management, teamwork, time management, and problem-solving skills.
- **Research:** Qualitative and quantitative research skills
- **UX/UI Design:** Understanding of user experience (UX) and user interface (UI) design principles.

- **Business:** Management, Finance, Accounting, Marketing, Psychology and Human Resources.
- **Continuous Learning:** Passion for learning in the field of computer science and Artificial intelligence.

PROJECTS

Convolutional Neural Networks (CNN)

- Emotion recognition using CNN was Top ten finalists for “best project” in the ITS Capstone Project Expo, S1, 2024.
- Image Classification using CNN.
- Tools: Python, MNE-python, Jupyter notebook, Git

E-commerce Website

- Developed a responsive eCommerce website using React JS.
- Designed and implemented intuitive product pages for diverse categories
- Built a functional shopping cart and secure login/register system
- Tools: React JS, CSS styling, and component-based architecture

Image and Data Analysis

- Developed a system for analyzing medical images to assist healthcare professionals in diagnosis.
- Conducted data preprocessing, feature selection, and model training using Python and scikit-learn.
- Implemented machine learning algorithms including CNN, MLP, Logistic Regression, SVM, and Decision Tree to make predictions.
- Designed an interactive graphical user interface (GUI)
- Tools: Python, Pandas, Numpy, scikit-learn, Tkinter, Streamlit

Extracting Insights from Unstructured Data using Topic Modelling

- Conducted topic modeling analysis on State of the Union (SOTU) speeches to uncover key themes and trends in presidential addresses over the years.
- Utilized Latent Semantic Indexing (LSI) and Latent Dirichlet Allocation (LDA) to reveal latent topics in the speeches.
- Summarized speeches by decades using LDA to observe the evolution of topics over time.
- Visualized results through word clouds and topic proportion graphs to illustrate key findings.
- Tools: Python, Pandas, Gensim, NLTK, Matplotlib, WordCloud

Forecasting the Commuter Numbers for a Rail Transport using Time Series

- Developed a time series forecasting model to predict commuter numbers for high-speed rail service.
- Conducted stationarity tests, including the Augmented Dickey-Fuller (ADF) test, to ensure data suitability for modeling.
- Implemented ARIMA and SARIMA models to establish baseline forecasts.
- Developed an LSTM neural network model using PyTorch for enhanced comparison.
- Tools: Python, Pandas, NumPy, Statsmodels, PyTorch

PREVIOUS WORK EXPERIENCE

Duty Manager

Avenue Hotel, Capital Hotel Group, Canberra, ACT

Nov 2022 - Present

- Innovated guest service processes, resulting in a consistent guest satisfaction rate exceeding 90%.

- Utilized property management systems and channel management systems to optimize front office operations.
- Provided leadership to the team, fostering a collaborative environment and leveraging strong communication skills.
- Applied problem-solving abilities to address guest concerns and improve functionality.
- Implemented stringent quality assurance measures to ensure reliability and security aligning with industry best practices.

Lodge Manager

Amankora, Aman Resorts International, Bhutan

June 2015 - May 2022

- Oversaw day-to-day operations of a luxury resort emphasizing on meticulous attention to detail and upholding company standards.
- Led and motivated team members to deliver exceptional customer service, demonstrating strong leadership and communication abilities.
- Implemented strategies to drive performance and enhance guest experiences.
- Ensured seamless coordination between departments to meet guest expectations, fostering collaboration and efficiency.