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Analysis Report

Personal Overview

YASHWANTK

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Experience Level

Intermediate

Target Job Role

AI/ML Engineer at Infosys

Education

Sri Shakthi Institute of Engineering and Technology

Amrita Vidyalayam, Nallampalayam

B.E.- CSE

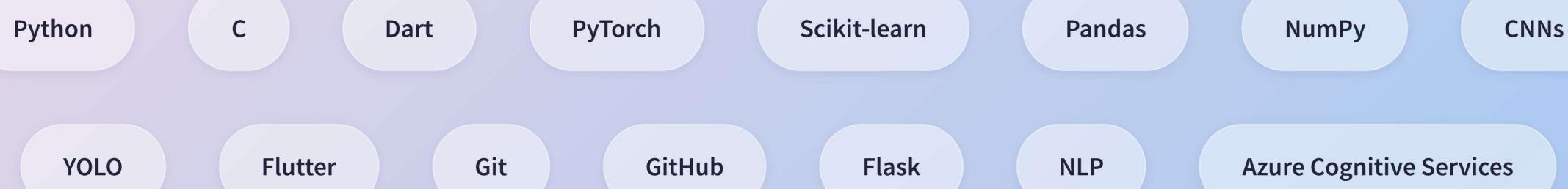
Key Projects

Currency Detection App for Visually Impaired Users: Developed a real-time currency recognition application to assist visually impaired users by identifying and announcing currency denominations through speech output. The app employs a hybrid machine learning approach, combining YOLO for object detection and a CNN-based classification model to improve accuracy.
Key Features Hybrid Processing: Supports both client-side (Pytorch) and server-side (Flask API) model execution. YOLO Model: Detects currency in a live video stream with 93.5

Role Radar: Developing a mobile application for the Computer Science and Engineering department, designed to enhance students' understanding of various job roles in different companies. The app serves as a centralized platform that provides essential company details, including domains, job roles, required skills, and selection criteria. Objective To streamline the

placement process by providing students with a structured, real-time repository of career-related information, helping them make informed career decisions and prepare effectively for job opportunities.

Technical Competencies



Career Development Suggestions

Recommended Skills



Recommended Courses

A grid of five course cards, each with a 'Data Science' filter icon. Each card includes a course title, a brief description, and a 'View Course →' button.

- Advanced Deep Learning with TensorFlow**
Deep dive into advanced DL models and techniques
[View Course →](#)
- Kubernetes for Developers**
Learn to deploy and manage applications using Kubernetes
[View Course →](#)
- Modern React with Redux**
Build dynamic user interfaces with React and Redux
[View Course →](#)
- Data Science Specialization**
A comprehensive introduction to data science with R
[View Course →](#)
- GCP Machine Learning**
Build and deploy ML models on Google Cloud Platform
[View Course →](#)

Recommended Company Roles

Responsibilities: Develop AI/ML models for automation

Language: Python, TensorFlow, PyTorch

Essential Knowledge: Machine learning, deep learning

▼ Show Personalized To-Do List

Okay, here's a step-by-step plan to help the user become a strong AI/ML Engineer candidate for Infosys, given their existing skills and the target role requirements:

1. Solidify Core Deep Learning Expertise (Target: 2 Months):

- **Action:** Focus on mastering the fundamentals of deep learning. This means going beyond just using PyTorch and understanding the *why* behind the *how*.
- **How:**
 - **Deep Learning Specialization (Coursera):** While you may have used CNNs, this specialization provides a strong theoretical foundation. Pay extra attention to the math and intuition behind backpropagation, optimization algorithms, and regularization techniques.
 - **TensorFlow Certification:** Even though the role mentions PyTorch, TensorFlow is still widely used. Getting the TensorFlow Developer Certificate demonstrates your understanding of building and deploying TensorFlow models. This will also make you a more versatile candidate.
 - **Practical Exercises:** Implement different neural network architectures (RNNs, LSTMs, Transformers) from scratch (or with minimal library usage) to understand the inner workings. Focus on problems relevant to automation like time series analysis, anomaly detection, or predictive maintenance, as these align with the "AI/ML models for automation" responsibility.

2. Build a Portfolio of Relevant Projects (Target: Ongoing, starting immediately):

- **Action:** Create 2-3 impactful projects that showcase your skills and align with the role's focus on automation.
- **How:**
 - **Automated Defect Detection:** Using your CNN and YOLO skills, build a system that can automatically detect defects in manufactured products using images/videos. This directly addresses automation.
 - **Predictive Maintenance Model:** Leverage your NLP and time-series skills (if you have some experience, otherwise research and learn) to build a model that predicts equipment failure based on sensor data and maintenance logs. This is highly valuable for automation in industrial settings.
 - **Intelligent Document Processing (IDP):** Use NLP and Azure Cognitive Services to automate the extraction of information from invoices, contracts, or other business documents. This can demonstrate your ability to improve efficiency and reduce manual work.
 - **GitHub:** Host your projects on GitHub with well-documented code, clear explanations of the problem you're solving, the approach you took, and the results you achieved. Write a compelling README.md file for each project.

3. Enhance Cloud Skills with Azure (Target: 1 Month):

- **Action:** Deepen your knowledge of Azure Cognitive Services and learn how to deploy and manage ML models on Azure.
- **How:**
 - **Azure AI Fundamentals Certification (AI-900):** This will give you a broad overview of Azure's AI capabilities.
 - **Azure Machine Learning Service:** Learn how to use Azure Machine Learning Service to train, deploy, and manage your models. Experiment with deploying your existing PyTorch/TensorFlow models on Azure.
 - **Focus on Serverless Deployment:** Explore Azure Functions and Azure Container Instances for serverless deployment of your models, particularly for real-time inference.

4. Tailor Your Resume and Cover Letter (Target: Before Applying):

- **Action:** Craft a targeted resume and cover letter that highlight your relevant skills and experience.
- **How:**
 - **Keywords:** Use keywords from the job description in your resume and cover letter. Emphasize your experience with Python, PyTorch, Machine Learning, Deep Learning, and automation-related projects.
 - **Quantify Your Achievements:** Whenever possible, quantify your accomplishments. For example, "Improved defect detection accuracy by 15% using YOLOv5," or "Reduced document processing time by 30% using NLP techniques."
 - **Highlight Relevant Projects:** Prominently feature the projects you built in step 2, emphasizing their impact and alignment with the role's responsibilities.

5. Network Strategically (Target: Ongoing):

- **Action:** Connect with people who work at Infosys, especially in the AI/ML domain.
- **How:**
 - **LinkedIn:** Search for AI/ML Engineers, Data Scientists, and Technical Recruiters at Infosys on LinkedIn. Connect with them and politely express your interest in the company and the AI/ML Engineer role.
 - **Attend Industry Events:** Attend AI/ML conferences, meetups, and webinars. Network with other professionals in the field and learn about the latest trends and technologies.
 - **Informational Interviews:** If possible, try to schedule informational interviews with people who work at Infosys to learn more about their experiences and get advice on how to prepare for the interview process.

6. Practice Technical Interview Questions (Target: 2 Weeks before applying):

- **Action:** Prepare for technical interviews by practicing common AI/ML questions.
- **How:**
 - **LeetCode:** Practice coding problems on LeetCode, focusing on data structures and algorithms relevant to machine learning.
 - **Machine Learning Interview Books:** Read books like "Cracking the Coding Interview" (focus on the ML sections) and "Designing Machine Learning Systems."
 - **Mock Interviews:** Practice mock interviews with friends or colleagues, focusing on both technical and behavioral questions.

7. Prepare for Behavioral Questions (Target: 2 Weeks before applying):

- **Action:** Prepare for behavioral questions that assess your teamwork, problem-solving, and communication skills.
- **How:**
 - **STAR Method:** Use the STAR method (Situation, Task, Action, Result) to structure your answers to behavioral questions.
 - **Common Questions:** Prepare answers to common behavioral questions such as "Tell me about a time you failed," "Tell me about a time you had to work with a difficult team member," and "Why are you interested in this role?"
 - **Company Research:** Research Infosys' values and culture and tailor your answers to align with their priorities.

By following these steps, the user can significantly increase their chances of landing the AI/ML Engineer role at Infosys and commanding a competitive salary within the specified range. Good luck!

Mid to Senior

Entry-level to Senior

₹120L - ₹220L

Responsibilities: Develop AI/ML models for automation

Language: Python, TensorFlow, PyTorch

Essential Knowledge: Machine learning, deep learning

▼ Show Personalized To-Do List

Okay, here's a step-by-step actionable to-do list to help the user become a strong candidate for a Mid-to-Senior AI/ML Engineer role at ThoughtWorks, given their existing skills and the role requirements:

1. Deepen PyTorch Expertise and TensorFlow Familiarity:

- **Action:** While the user has PyTorch experience, ThoughtWorks mentions both PyTorch and TensorFlow. Dedicate time to becoming proficient in TensorFlow. Focus on building similar models in both frameworks (e.g., CNNs, RNNs) to understand their strengths and weaknesses.
- **Resources:**
 - TensorFlow official documentation and tutorials.
 - TensorFlow in Practice specialization on Coursera.
- **Why:** This demonstrates versatility and allows the user to contribute to a wider range of projects at ThoughtWorks.

2. Showcase Automation-Focused ML Projects:

- **Action:** Design and execute 1-2 personal projects that directly demonstrate the application of AI/ML for automation. Avoid generic projects. Think about real-world automation challenges and model solutions.
 - **Examples:**
 - **Automated Data Extraction from Documents:** Use NLP and computer vision (OCR) to automatically extract data from invoices, contracts, or other documents.
 - **Predictive Maintenance:** Build a model to predict equipment failures based on sensor data, enabling proactive maintenance.
 - **Automated Code Review:** Use NLP models to automatically identify potential bugs or style issues in code.
 - **Why:** This directly aligns with the role's focus on automation and provides tangible evidence of practical skills.

3. Enhance NLP and Azure Cognitive Services Integration:

- **Action:** Given the existing NLP and Azure Cognitive Services skills, create a project that integrates them for a specific automation task.
 - **Example:** Build a chatbot that automatically routes customer inquiries to the appropriate department using Azure's Language Understanding (LUIS) and integrates with a ticketing system.
 - **Why:** This demonstrates the ability to leverage cloud-based AI services for practical solutions and showcases a valuable skillset.

4. Contribute to Open Source and Build a Strong GitHub Profile:

- **Action:** Identify relevant open-source projects in the AI/ML automation space (using PyTorch or TensorFlow). Contribute bug fixes, improvements, or new features. Actively maintain the user's GitHub profile with well-documented projects and contributions.
- **Why:** Shows a commitment to the community, ability to collaborate, and provides tangible evidence of coding skills to potential employers.

5. Network Strategically:

- **Action:**
 - **LinkedIn:** Actively engage with ThoughtWorks employees, especially those in AI/ML roles. Share relevant articles, comment on their posts, and participate in relevant groups.
 - **Meetups/Conferences:** Attend AI/ML meetups and conferences (virtual or in-person). Network with professionals and learn about industry trends.
- **Why:** Networking can lead to valuable insights, potential referrals, and a better understanding of ThoughtWorks' culture and projects.

6. Prepare for Technical Interviews:

- **Action:** Practice solving common AI/ML interview questions, especially those related to model design, implementation, evaluation, and optimization. Focus on explaining technical concepts clearly and concisely. Review data structures and algorithms.
- **Resources:**
 - LeetCode
 - Cracking the Coding Interview
 - Glassdoor interview questions for ThoughtWorks AI/ML roles
- **Why:** Being well-prepared for technical interviews is crucial for demonstrating competence and problem-solving skills.

7. Tailor Resume and Cover Letter:

- **Action:** Carefully tailor the resume and cover letter to highlight the skills and experiences that are most relevant to the ThoughtWorks role. Quantify achievements whenever possible (e.g., "Improved model accuracy by 15%"). Emphasize experience with PyTorch, TensorFlow, and automation-related projects.
- **Why:** A targeted resume and cover letter will significantly increase the chances of getting an interview.

By following these steps, the user can significantly strengthen their candidacy and increase their chances of landing the AI/ML Engineer role at ThoughtWorks. Good luck!

AI/ML Engineer at ServiceNow

Entry to Senior

Mid to Senior

₹120L - ₹220L

Responsibilities: Develop AI/ML models for automation

Language: Python, TensorFlow, PyTorch

Essential Knowledge: Machine learning, deep learning

▼ Show Personalized To-Do List

Okay, here's a step-by-step action plan for the user to become a strong candidate for a ServiceNow AI/ML Engineer role, targeting that ₹120L - ₹220L package:

1. Solidify TensorFlow Expertise and ServiceNow Integration Awareness:

- **Action:** While you know PyTorch, TensorFlow is specifically mentioned. Dedicate time to mastering TensorFlow concepts and syntax. Explore TensorFlow Hub for pre-trained models and TensorFlow Extended (TFX) for productionizing ML pipelines.
- **Why:** The job description explicitly mentions TensorFlow. Being proficient will give you a significant advantage.

- **Bonus:** Research how AI/ML models can be integrated with the ServiceNow platform. Look for existing ServiceNow APIs or integrations that allow for model deployment and data interaction. Understanding the ServiceNow ecosystem is crucial.
2. Tailor Projects to ServiceNow's Automation Focus:
- **Action:** Create 1-2 projects that directly demonstrate your ability to build AI/ML models for *automation*. Consider projects like:
 - **Intelligent Ticket Routing:** Build a model that automatically classifies and routes ServiceNow tickets based on text descriptions, improving resolution times. Use NLP and your knowledge of Azure Cognitive Services for feature extraction.
 - **Predictive Incident Management:** Develop a model that predicts potential incidents based on historical data and system logs, enabling proactive problem resolution.
 - **Automated Knowledge Base Article Recommendation:** Build a system that recommends relevant knowledge base articles to users based on their current issue or query.
 - **Why:** Showcasing projects directly relevant to ServiceNow's business needs proves your value. These projects demonstrate practical application of your skills in an automation context.
 - **Bonus:** If possible, try to use publicly available datasets that resemble ServiceNow data (e.g., incident reports, service requests).

3. Deepen Understanding of NLP for Text-Based Automation:

- **Action:** Focus your NLP skills on areas crucial for automation, such as:
 - **Named Entity Recognition (NER):** Extracting key information from text (e.g., user names, device names, error codes) to automate data entry or routing.
 - **Text Classification:** Categorizing text (e.g., classifying customer sentiment, identifying the topic of a service request).
 - **Topic Modeling:** Discovering underlying themes in large text datasets (e.g., identifying common issues reported by customers).
- **Why:** ServiceNow heavily relies on text-based data (tickets, knowledge base articles, chat logs). Strong NLP skills are essential for building intelligent automation solutions.
- **Bonus:** Explore advanced NLP techniques like transformer models (BERT, RoBERTa) for improved accuracy.

4. Azure Cognitive Services Specialization:

- **Action:** Leverage your Azure Cognitive Services knowledge to build integrations with ServiceNow. For example:
 - **Sentiment Analysis of Customer Interactions:** Integrate Azure Cognitive Services to analyze the sentiment of customer interactions (e.g., chat logs, survey responses) and automatically escalate negative interactions.
 - **Language Translation for Global Support:** Use Azure Cognitive Services for language translation to provide support in multiple languages.
- **Why:** Demonstrating proficiency with Azure Cognitive Services, especially in the context of integrating with ServiceNow, makes you a more attractive candidate. ServiceNow uses Azure as one of its cloud platforms.

5. Showcase Your Work and Network Strategically:

- **Action:**
 - **GitHub Portfolio:** Create a well-organized GitHub portfolio with clear documentation for each project. Include detailed README files explaining the project's purpose, implementation, and results.
 - **LinkedIn Profile:** Optimize your LinkedIn profile to highlight your AI/ML skills, projects, and experience. Use relevant keywords (e.g., "ServiceNow," "AI," "ML," "Automation," "TensorFlow").
 - **Networking:** Connect with AI/ML engineers and recruiters at ServiceNow on LinkedIn. Attend relevant webinars, conferences, or meetups. Share your projects and engage in discussions.
- **Why:** A strong online presence helps you get noticed and builds your credibility. Networking can lead to valuable connections and potential job opportunities.

6. Prepare for Technical Interviews:

- **Action:** Practice common AI/ML interview questions, including:
 - **Technical Questions:** Be prepared to discuss model selection, hyperparameter tuning, evaluation metrics, and common ML algorithms.
 - **Coding Questions:** Practice coding problems in Python and TensorFlow.
 - **System Design Questions:** Be ready to design an AI/ML system for a specific automation task within ServiceNow.
 - **Behavioral Questions:** Prepare examples that demonstrate your problem-solving skills, teamwork abilities, and communication skills.
- **Why:** Strong performance in technical interviews is crucial for landing the job.

7. Consider Relevant Certifications (Optional but Beneficial):

- **Action:** While not strictly required, consider pursuing certifications that demonstrate your expertise in AI/ML or cloud computing. Examples include:
 - **TensorFlow Developer Certificate:** Validates your proficiency in TensorFlow.
 - **Microsoft Certified: Azure AI Engineer Associate:** Demonstrates your knowledge of Azure AI services.
- **Why:** Certifications can add credibility to your resume and demonstrate your commitment to continuous learning.

By following this action plan and focusing on the specific skills and experience required for the ServiceNow AI/ML Engineer role, the user can significantly increase their chances of landing the job and commanding the desired salary range. Good luck!