AI-Based Speech Recognition
NEURAL NETWORK BASED SPEECH/ AUDIO RECOGNITION ON EDGE DEVICE
Enabling wake word detection on Edge Device

Scope

• Developed neural network for target wake word detection
• Ported trained neural network onto proprietary hardware platform
• Trained AI model with limited audio sample datasets
• Calibrated the hardware parameters to improve the performance

Challenges

• Neural network to be developed using only proprietary API’s
• AI model architecture developed using only Dense Layer

Tools & Framework

• Proprietary API’s for Pre & Post processing & AI model development

<table>
<thead>
<tr>
<th>Market</th>
<th>Delivery model</th>
<th>What’s Next</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer Electronics</td>
<td>Fixed Bid</td>
<td>Advanced Use Case Implementation</td>
</tr>
</tbody>
</table>